No. 71

Jan.—March 1958

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation: chalk

Instruments

Galitzin-Wilip. N, E and Z. $T_p = T_g = 12^1/_2$ sec, $\mu^2 = 0$, $\dfrac{Ak}{\pi l} = 260\ \text{sec}^{-1}$ or $V_{\max}$ = abt. 1000.

Benioff. Z'. $T_p = 1$ sec, $T_g = {}^1/_4$ sec, $V_{\max}$ = abt. 30 000.

Wiechert 1000 kg. N and E. $T = 8^1/_2$ sec, $\nu = 6:1$, $\varrho = 0.3$ mm, $V_0 = 210$.

Wiechert 1300 kg. Z. $T = 6$ sec, $\nu = 4:1$, $\varrho = 0.3$ mm, $V_0 = 150$.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + indicates ground motion towards the north, towards the east, or upwards. – indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

Microseismic Readings

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated. All readings are due to the Galitzin instruments.

January

2	iP·Z′Z	$2^h12^m55^s$	
	iPP·Z	13 14	
	iS·E	16 39	
	iSS·E	17 06	
	L·N	18.8	
	Δ = 21°. Greece.		
2	L·NE	21 56	
3	iP·Z′	2 07 46	
	Δ = 84°. Japan.		
3	eS·NE	6 39 20	
	L·NE	48	
	Δ = 45°. North Atlantic Ocean.		
3	eS·NE	7 17 05	
	e(ScS)·N	20.4	
	L·NE	24	
	Δ = 45°. North Atlantic Ocean.		
3	eP·Z′	18 00 12	uncertain.
	eSKS·N	10.6	
	e·E	10 43	
	eS·NE	11 03	
	L·NE	34	
	Δ = 89°. Mascarene Islands region.		
3	L·NE	22 32	
4	iS·N	6 54 37	
	L·NE	7 00	
	Δ = 44°. North Atlantic Ocean.		
5	eP·Z	11 40 15	masked by microseisms.
	iS·NE	48 10	
	eSS·NE	51.6	
	L·NE	59	
	M·NE	12 00	15^s. N: 30 μ, E: 30 μ.
	Δ = 56°. Siberia.		
13	iP·Z′	0 13 36	+
	eS·E	22 47	
	e·E	23.5	
	Δ = 72°. h = 100 km. Aleutian Islands.		
13	ePKP·Z′	3 13 45	
	ePKS·E	17 14	
	L·NE	58	
	Δ = 131°. h = 100 km. Santa Cruz Islands.		
13	iP·Z′Z	20 26 13	Z′: +, Z: –.
	L·NE	52	
	Δ = 76°. Andaman Islands.		

January

14	iPKP1·Z′	$7^h39^m45^s$	
	iPKP2·Z′	39 56	
	Δ = 152°. h = 350 km.		
14	(i)P·Z′	12 59 43	in the time-break.
15	iP·Z′	4 22 04	
	Δ = 70°. Siberia.		
15	eP·Z′Z	19 28 14	
	ipP·Z	28 33	+
	iPP·ZE	32 18	
	iSKS·E	38 50	
	i·N	38 57	
	iS·E	39 25	
	e·N	39 29	
	isS·N	40 25	
	e·E	40 37	
	iPS·E	41 16	
	L·NE	20 02.5	
	M·ZNE	07	30^s. Z: 100 μ, N: 50 μ, E: 100 μ.
	Δ = 100°. h = 100 km. Peru.		
15	L·NE	23 20	
16	eP·Z′	4 22 32	
	L·NE	28.1	
	Δ = 20°. Turkey.		
19	iP·Z	14 20 33	–
	iPP·Z	24 05	–
	eSKS·E	31 04	
	iS·N	31 29	
	e·E	31 57	short period.
	L·NE	49	
	Wiechert readings only.		
	Δ = 91°. Ecuador.		
19	eP·Z	14 56 30	
	Wiechert reading.		
	Δ = 91°. Ecuador.		
22	L·NE	19 11	
23	iP·Z′	2 45 26	
	Δ = 73°. h = 150 km. Kurile Islands.		
23	iP·Z′	13 37 26	
	eS·E	39 12	per: 2 sec.
	i·Z′N	39 14	
	L·NE	40.1	
	M·E	40.9	5^s. 22 μ.
	M·ZN	41.8	15^s. Z: 15 μ, N: 15 μ.
	Δ = 10°. Off coast of Norway.		

January

24	L·NE	5^h01^m	
24	eP·Z′Z	6 04 48	
	i·Z	04 50	
	ePP·Z	07 12	
	eS·N	13 25	
	ePS·NE	13 40	
	eSS·NE	18.1	
	L·NE	25	
	Δ = 65°. Kamchatka.		
24	L·NE	18 49	
24	iP·Z′	23 27 59	
	Δ = 64°. Alaska.		
27	L·ZNE	8 56	
28	e·Z′	12 59 53	
28	iP·Z′	17 22 12	+
	Δ = 37°. Iran.		
30	e·Z′	2 27 53	
30	ePP·Z	6 34 09	
	eSKS·NE	39 37	
	eSKKS·NE	41 10	
	ePS·NE	44 25	
	e(PPS)·NE	46 02	
	eSS·N	51 00	
	L·NE	7 11	
	Δ = 124°. Solomon Islands.		

February

1	eP·Z′Z	16 23 15	
	ePP·Z	26 45	
	e(SKS)·E	33 20	
	e(S)·E	34 04	
	i·N	34 10	
	eSS·N	40 05	
	Masked by microseisms.		
	Δ = 90°. Ecuador.		
5	L·NE	8 47	
7	L·NE	5 20	
7	iP·Z′Z	23 34 18	
	eS·NE	43 02	
	L·NE	58	
	Δ = 66°. Szechwan Province, China.		
9	L·NE	23 15	

February

12	eP·Z′	$23^h42^m58^s$	
	i·Z′	43 00	
	Δ = 74°. Japan.		
12	iP·Z	23 55 17	
	ePP·N	58.3	
	eS·N	24 04 46	
	e·N	05 32	
	eSS·N	09.7	
	L·NE	19	
	Δ = 73°. Aleutian Islands.		
15	iP·Z′Z	1 58 17	+
	L·NE	2 26	
	Δ = 73°. Kurile Islands.		
16	iP·Z′	6 15 58	+
	eS·NE	25.9	
	L·NE	43	
	Δ = 76°. Japan.		
16	L·ZN	23 14	
17	iP·Z′Z	5 26 25	Z′: –, Z: 5^s, + 5 μ.
	epP·Z′	27 13	
	esP·Z′	27 30	
	ePP·Z	28 13	
	epPP·Z	28 52	
	iPPP·ZE	29 04	Z: 8^s, 10 μ.
	iS·N	32 38	10^s. 20 μ.
	isS·NE	33 54	14^s. N: 12 μ, E: 10 μ.
	iSS·NE	36 03	10^s. N: 15 μ, E: 25 μ.
	Δ = 43°. h = 200 km. Hindu Kush.		
18	L·NE	20 32	
19	iP·Z′	10 41 12	
	i(pP)·Z′	41 16	
	L·NE	58	
	Δ = 44°. Kirghiz SSR.		
19	L·NE	20 16	
20	L·NE	4 42	
20	L·NE	5 24	
22	iP·Z′Z	11 02 04	Z: 3^s, – 5 μ.
	iS·NE	11 38	8^s. N: + 12 μ, E: + 10 μ.
	L·NE	26	
	M·ZNE	29	30^s. Z: 25 μ, N: 30 μ, E: 25 μ.
	Δ = 74°. Aleutian Islands.		

February			
23	*L·ZNE*	$9^{h}27.5^{m}$	
	M·ZN	29.7	10^{s}. Z: $3\,\mu$, N: $3\,\mu$.
	F·ZNE	31	
23	*L·NE*	10 51	
23	*i·Z′*	11 00 41	
24	*eP·Z′Z*	12 36 26	
	i·Z′	36 30	
	eS·E	44 02	
	e·ZN	44 04	
	L·NE	53	
	M·NE	56	15^{s}. N: $20\,\mu$, E: $8\,\mu$.
	$\Delta = 54°$. Outer Mongolia.		
25	*L·NE*	2 40	
26	*L·NE*	12 23	
26	*L·N*	17 29	
26	*L·NE*	17 59	
27	*L·N*	4 20	
27	*L·ZNE*	8 13	
	M·ZNE	17	10^{s}. Z: $5\,\mu$, N: $4\,\mu$, E: $3\,\mu$.
	F·ZNE	19	
27	*L·NE*	10 39	
27	*eP·Z′Z*	23 40 20	
	eS·N	50 35	
	e·E	50 47	
	e·E	51.6	
	eSS·N	55 43	
	L·NE	24 08	
	M·NE	13	18^{s}. N: $30\,\mu$, E: $15\,\mu$.
	M·NE	20	15^{s}. N: $12\,\mu$, E: $25\,\mu$.
	$\Delta = 82°$. Batan Islands region.		
28	*eS·NE*	10 11 06	E: 13^{s}, $3\,\mu$.
	L·NE	17	
	$\Delta = 50°$. Mid Atlantic Ocean.		
March			
1	*iP·Z′Z*	9 34 37	Z: 7^{s}, $-6\,\mu$. Z': $-$.
	L·NE	9.9	
	$\Delta = 41°$. Southern Iran.		
3	*eP·Z′*	7 35 28	
	ePPP·N	39.6	
	L·NE	8 06	
	$\Delta = 81°$. Formosa.		
March			
3	*iP·Z′Z*	$16^{h}29^{m}14^{s}$	+
	eS·NE	38 09	
	eScS·N	39 12	
	eSS·N	42.6	
	L·E	48	
	L·N	52	
	$\Delta = 67°$. Kommandorskie Islands.		
4	*iP·Z′*	11 37 03	
	$\Delta = 23°$. Dodecanese Islands.		
9	*L·NE*	11 41	
11	*iP·Z′*	0 38 08	−
	iP·Z	38 09	+
	i·NE	38 28	
	i·NE	42 16	
	iS·NE	48 21	Wiechert.
	i(ScS)·N	48 40	Wiechert.
	iPS·NE	50 11	Wiechert.
	L·NE	1 02	
	M·NE	11	20^{s}. N: $120\,\mu$, E: $80\,\mu$.
	$\Delta = 81°$. Ryukyu Islands.		
11	*ePP·Z*	14 21 18	
	ePKS·Z	21 54	
	e·ZE	22 11	
	L·NE	14.1	
	$\Delta = 133°$. New Hebrides Islands.		
13	*(L)·ZNE*	7 28.6	
14	*L·NE*	0 35	
15	*L·NE*	1 04	
15	*eS·N*	6 34 06	
	L·NE	35.8	
	$\Delta = 17°$. Albania.		
18	*iP·Z′Z*	22 31 43	
	iS·E	41 22	
	$\Delta = 75°$. Aleutian Islands.		
19	*eL·E*	16 08 33	
	eL·Z	09 18	
	$\Delta = 9°$. Austria-Yugoslavia border.		
20	*iP·Z′Z*	1 49 43	−
	iS·NE	59 20	10^{s}. N: $+8\,\mu$, E: $+10\,\mu$.
	eScS·E	59 56	
	eSS·N	2 04 16	
	L·NE	14	
	M·NE	17	25^{s}. N: $10\,\mu$, E: $10\,\mu$.
	$\Delta = 75°$. Aleutian Islands.		
21	*L·NE*	9 06	

March			
22	*iP·Z′*	$10^{h}22^{m}17^{s}$	−
	eS·NE	31 03	
	e·NE	31 36	
	eSS·N	35.2	
	e·NE	38 54	
	L·NE	43	
	$\Delta = 66°$. Burma-Pakistan border.		
22	*eP·Z′Z*	11 15 46	
	eS·NE	22 09	
	eSS·E	25 32	
	L·NE	31	
	$\Delta = 43°$. Afghanistan.		
23	*L·NE*	10 57	
28	*iP·Z′*	4 17 19	
	(i)pP·Z′	18 08	in the time-break.
	ePP·Z′	18 56	
	ipPP·Z′	19 28	
	eS·E	23 15	
	eSS·NE	27 05	
	$\Delta = 43°$. $h = 200$ km. Hindu Kush.		
March			
28	*iP·Z′Z*	$12^{h}14^{m}11^{s}$	Z': +. Z: 4^{s}, $+12\,\mu$.
	ipP·ZE	14 53	
	isP·ZE	15 12	Z: 4^{s}, $-5\,\mu$.
	ePP·Z	15 55	
	e·N	17 50	
	e·N	19 44	
	eS·N	20 28	
	esS·N	21 40	
	iSS·N	23 35	
	e·NE	23 47	
	$\Delta = 43°$. $h = 200$ km. Hindu Kush.		

May 1958. HENRY JENSEN

Microseisms. København

1958	Z				N				E				1958
Jan.	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	Jan.
1	3 0.6 4.6	3 0.6 3.5	3 0.6 4.2	3 0.6 3.8	3 0.5 4.8	3 0.6 3.6	3 0.6 4.0	3 0.6 3.7	3 0.5 4.3	3 0.7 4.0	3 0.6 4.3	3 0.5 4.4	1
2	3 0.6 4.2	.. ..	3 0.4 4.7	3 0.4 4.4	3 0.6 4.2	3 0.6 4.2	3 0.5 4.6	3 0.5 4.7	3 0.6 4.2	3 0.6 4.0	3 0.5 4.2	3 0.4 4.3	2
3	3 0.4 4.4	.. ..	3 0.4 4.3	2 0.5 4.2	3 0.4 4.6	3 0.4 4.7	3 0.4 4.0	2 0.5 4.1	3 0.4 4.5	3 0.5 4.3	3 0.4 4.3	2 0.5 3.9	3
4	2 0.6 4.2	2 0.7 4.4	2 1.0 4.2	2 0.9 4.5	2 0.6 4.0	2 0.7 4.1	2 1.0 4.6	2 1.2 4.5	2 0.6 3.9	2 0.7 4.1	2 1.1 4.4	2 1.1 4.3	4
5	3 1.1 4.0	3 0.8 3.9	.. ..	3 1.8 4.2	3 1.4 3.9	3 1.0 3.6	.. ..	3 1.6 4.3	3 1.3 4.3	3 1.3 3.9	.. ..	3 1.6 4.5	5
6	3 1.7 4.5	3 2.5 4.2	3 2.4 4.1	3 2.4 3.9	3 2.4 4.1	3 2.3 3.8	3 1.8 3.8	3 1.8 4.1	3 2.5 4.2	3 2.4 4.0	3 2.4 4.0	3 1.7 4.5	6
7	3 2.5 4.3	1 3.0 4.8	3 1.9 4.0	3 1.3 4.3	3 2.3 4.0	1 4.– 4.7	3 1.5 4.6	3 1.2 4.4	3 2.2 3.8	1 4.– 4.8	3 2.4 4.1	3 1.7 4.3	7
8	3 1.3 4.1	3 1.0 4.3	3 0.8 3.9	3 0.6 3.9	3 1.0 4.8	3 1.0 4.8	3 0.7 4.4	3 0.5 4.3	3 1.1 4.3	3 1.0 4.5	3 0.7 3.9	3 0.6 3.9	8
9	3 0.7 4.2	3 0.6 3.7	1 5.– 4.8	1 6.– 4.6	3 0.6 3.6	3 0.8 3.8	1 7.– 4.8	1 8.– 5.–	3 0.7 3.8	3 0.7 3.6	1 5.– 5.0	1 6.– 5.2	9
10	1 3.0 4.7	1 2.4 4.2	2 1.3 4.2	2 1.4 4.2	1 4.3 4.9	1 1.8 4.6	2 1.5 3.8	3 1.5 4.0	1 3.7 5.0	1 2.7 4.2	3 2.0 4.1	3 1.9 4.2	10
11	2 2.6 4.0	2 3.0 4.2	2 3.2 4.0	1 3.5 4.0	2 2.1 4.3	2 2.5 4.5	1 3.0 4.4	1 2.6 4.7	2 3.1 4.2	2 3.3 4.7	1 3.0 4.5	1 2.8 4.5	11
12	1 3.6 4.2	1 2.1 3.9	1 1.8 4.0	3 1.3 3.7	1 3.0 4.3	1 2.7 4.0	3 1.8 3.8	3 1.3 4.5	1 2.5 4.7	1 2.4 4.2	3 1.8 3.9	3 1.2 4.3	12
13	3 0.8 4.3	3 0.8 4.7	2 0.7 4.1	2 0.6 5.3	3 0.9 4.5	3 1.0 4.7	2 0.7 4.5	2 0.7 4.5	3 1.2 4.2	3 1.2 3.5	2 0.7 5.0	2 0.9 4.5	13
14	2 0.6 4.5	1 1.2 4.8	1 1.6 5.8	1 1.6 5.0	2 0.9 4.2	2 1.2 5.0	1 1.7 5.1	1 1.8 5.0	2 0.8 4.5	1 1.1 5.2	1 1.5 5.3	1 1.6 5.2	14
15	1 1.4 4.8	1 1.8 5.3	1 1.0 5.2	1 1.2 5.0	1 1.6 5.0	1 1.4 4.8	1 1.5 5.2	1 1.5 5.0	1 1.7 5.2	1 1.8 4.3	1 1.5 5.7	1 1.2 5.2	15
16	.. ..	1 1.6 5.3	1 1.8 5.7	1 3.0 5.8	.. ..	1 2.0 4.7	1 2.3 5.6	1 3.5 6.2	.. ..	1 1.7 5.3	1 2.5 5.3	1 3.7 5.9	16
17	1 3.6 6.3	1 3.6 5.5	1 5.– 6.0	1 5.– 5.9	1 3.6 5.7	1 3.3 6.2	1 5.– 5.6	1 5.– 5.9	1 3.7 5.9	1 4.0 6.0	1 3.8 5.8	1 5.– 6.0	17
18	1 6.– 6.0	1 5.– 5.7	3 4.5 5.6	3 4.– 5.4	1 6.– 6.2	1 6.– 6.2	3 4.– 6.0	3 4.– 5.3	1 6.– 6.2	1 7.– 5.7	3 4.– 5.8	3 4.– 5.3	18
19	3 3.5 5.0	3 2.9 5.1	3 3.0 4.5	3 2.5 5.0	3 3.5 5.2	3 3.0 5.1	3 2.7 4.9	3 2.5 4.6	3 3.5 5.4	3 3.0 5.1	3 2.5 4.6	3 2.5 5.0	19
20	3 2.8 5.1	3 2.4 5.7	3 2.6 6.3	3 2.0 5.8	3 2.8 5.2	3 2.8 5.3	3 2.5 6.2	3 2.0 5.7	3 2.5 4.9	3 2.4 5.0	3 2.1 5.5	3 1.7 5.7	20
21	3 2.0 6.2	3 1.7 5.6	3 1.2 6.1	3 1.2 5.3	3 2.0 5.2	3 1.6 5.8	3 1.6 5.0	3 1.6 4.8	3 2.1 6.1	3 1.7 5.2	3 5.1 5.2	3 1.3 4.5	21
22	3 1.3 4.2	3 0.8 5.0	3 1.0 4.3	3 1.0 3.5	3 1.5 4.4	3 1.3 4.6	3 1.5 4.2	3 1.5 4.2	3 1.5 4.2	3 1.3 4.5	3 1.3 4.5	3 1.3 4.1	22
23	3 1.2 3.7	3 1.0 3.7	2 0.9 3.9	2 0.8 4.5	3 1.3 4.3	3 1.2 3.9	3 1.0 4.7	2 1.0 4.3	3 1.3 4.0	3 1.3 3.3	2 0.9 4.5	2 1.0 4.2	23
24	2 0.7 4.3	2 0.7 4.6	2 0.7 4.0	2 0.7 4.0	2 0.8 4.5	2 0.8 4.2	2 0.9 4.1	2 1.0 4.1	2 1.0 4.2	2 0.9 4.0	2 1.0 4.2	2 0.8 4.3	24
25	2 0.7 4.6	2 0.8 4.5	2 0.8 4.1	1 1.1 4.8	2 1.0 4.2	2 1.2 4.2	2 1.0 4.5	1 1.2 5.0	2 1.3 4.1	2 1.2 4.3	2 0.9 4.8	1 1.4 5.0	25
26	1 1.4 5.1	1 1.8 4.2	1 1.9 4.2	3 1.5 4.1	1 1.7 4.9	1 1.8 4.9	1 1.5 4.3	3 1.8 4.2	1 1.8 4.9	1 1.4 4.7	1 1.9 4.7	3 1.5 4.3	26
27	2 1.1 4.3	2 1.4 3.7	3 1.1 4.5	3 1.0 5.1	3 1.3 4.2	2 1.5 4.0	3 1.3 4.6	3 1.4 4.7	3 1.4 4.1	2 1.3 4.5	3 1.5 5.0	3 1.5 4.7	27
28	3 1.2 4.5	3 1.2 5.0	3 1.2 4.3	3 1.2 4.1	3 1.4 5.0	3 1.2 4.5	3 1.2 4.7	3 1.1 4.7	3 1.5 4.8	3 1.5 4.6	3 1.2 4.6	3 1.4 4.2	28
29	3 1.2 4.2	3 0.8 4.3	2 0.8 4.5	2 0.7 4.2	3 1.0 4.5	3 1.0 4.8	2 0.8 4.6	2 0.8 4.5	3 1.0 4.5	3 1.1 4.8	2 0.9 4.7	2 0.9 4.5	29
30	2 0.7 4.7	2 0.6 4.9	2 0.5 4.8	2 0.5 4.7	2 0.7 5.0	2 0.7 4.7	2 0.6 4.5	2 0.6 4.4	2 0.9 4.7	2 0.6 4.5	2 0.7 4.5	2 0.7 4.5	30
31	2 0.6 4.5	2 0.6 4.8	2 0.8 5.0	3 1.1 5.1	2 0.7 4.3	2 0.8 4.6	2 1.0 4.5	2 1.2 5.2	2 0.8 4.7	2 0.9 4.6	2 1.0 5.3	1 1.3 5.0	31

Microseisms. København

1958	Z				N				E				1958
Feb.	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	Feb.
1	1 1.9 5.6	1 2.2 5.5	1 2.4 5.3	.. ..	1 2.0 5.5	1 2.7 5.7	1 3.3 5.5	.. ..	1 2.0 5.5	1 2.0 5.0	1 2.8 6.2	.. ..	1
2	1 3.0 5.5	1 3.7 5.3	1 3.8 6.0	1 5.– 5.5	1 3.5 5.2	1 5.– 5.5	1 7.– 6.5	1 8.– 5.7	1 4.– 5.3	1 4.5 5.5	1 6.– 5.7	1 7.– 5.5	2
3	1 6.– 5.7	1 5.– 5.5	1 3.5 5.2	3 2.5 4.6	1 7.– 5.7	1 6.– 5.5	1 4.– 5.6	1 2.6 5.4	1 6.– 6.2	1 5.5 6.0	1 4.– 5.8	1 2.5 5.4	3
4	3 2.2 5.1	3 1.4 4.6	.. ..	3 0.9 4.5	1 2.0 4.8	1 1.3 4.8	.. ..	2 1.0 5.0	1 2.4 5.0	2 1.5 4.7	.. ..	1 1.0 4.5	4
5	1 0.8 4.3	1 1.2 3.7	1 2.0 3.4	1 3.0 4.0	2 0.8 4.4	2 1.2 3.7	1 1.8 4.1	1 2.8 4.0	2 0.9 3.9	1 1.3 3.9	1 2.2 3.7	1 2.4 4.0	5
6	3 3.0 3.5	1 1.7 3.7	1 1.8 3.8	1 1.7 3.9	3 2.4 3.8	1 1.9 3.8	1 2.1 3.8	1 1.3 4.3	3 3.– 3.5	1 1.8 3.8	1 2.1 3.9	1 1.7 3.9	6
7	2 1.0 4.0	2 0.7 4.1	2 0.7 4.0	2 0.5 3.–	2 1.1 3.9	2 1.0 3.9	2 0.9 3.7	2 0.8 3.8	2 1.2 4.0	2 0.9 3.6	2 0.6 4.3	2 0.7 3.8	7
8	.. ..	1 0.7 4.–	1 0.9 4.0	3 1.3 4.3	.. ..	2 0.9 4.0	2 1.3 3.7	2 1.5 4.2	.. ..	2 0.8 4.0	1 1.2 4.6	1 1.8 4.2	8
9	3 3.– 4.2	3 4.– 5.–	3 4.– 4.7	3 3.3 4.0	3 2.4 4.7	1 5.– 4.7	3 5.– 4.7	1 2.– 4.5	3 2.5 4.4	.. ..	3 6.– 4.–	3 3.– 3.7	9
10	3 1.6 3.8	3 1.3 4.1	1 1.8 3.8	1 2.5 4.2	3 1.3 3.6	2 1.5 3.7	2 1.8 4.0	1 2.6 3.7	3 1.5 3.3	3 1.5 3.9	1 2.1 4.0	1 3.0 3.8	10
11	1 2.7 3.8	3 2.– 3.9	3 2.1 3.5	1 2.– 3.7	1 2.– 4.3	3 2.– 3.8	3 2.0 4.2	1 2.4 3.8	1 2.8 4.2	3 2.5 3.5	3 2.– 3.7	1 2.– 3.9	11
12	1 2.4 3.8	3 1.8 3.6	1 1.0 4.3	1 0.9 4.8	1 2.1 3.6	2 1.5 3.9	2 1.2 4.0	2 1.2 4.1	1 2.7 4.0	3 1.8 3.5	3 1.2 4.0	1 1.0 4.3	12
13	1 1.2 4.1	2 0.9 4.0	2 0.7 4.3	2 0.8 4.4	2 1.2 4.2	2 0.9 4.2	2 1.2 4.0	2 1.0 4.3	1 1.0 4.5	2 0.9 4.6	2 0.8 4.5	2 0.9 4.2	13
14	2 0.9 4.4	2 1.2 4.5	3 1.2 4.0	3 1.3 3.5	2 1.0 4.4	2 1.3 4.2	2 1.5 4.2	3 1.4 4.3	2 1.0 4.6	2 1.0 4.7	2 1.3 4.3	3 1.3 4.4	14
15	3 1.2 3.8	3 1.0 4.5	1 1.1 4.5	1 0.9 4.8	3 1.7 3.8	2 1.5 4.2	2 1.2 4.4	1 1.2 4.3	3 1.6 3.6	2 1.5 3.8	1 1.1 4.8	1 1.4 5.0	15
16	1 1.1 4.3	1 1.1 4.5	3 1.1 4.8	3 1.1 4.6	1 1.4 4.5	1 1.5 5.2	3 1.5 4.9	3 1.5 4.8	1 1.2 5.0	1 1.4 5.2	3 1.3 4.7	3 1.4 4.4	16
17	3 1.3 4.5	3 1.5 4.0	3 1.7 4.6	3 2.2 4.4	3 1.4 4.3	3 1.8 4.1	3 2.0 4.5	1 3.– 5.–	3 1.4 4.3	.. ..	3 2.5 4.–	3 3.– 4.–	17
18	3 2.5 4.8	1 2.5 4.3	1 2.0 5.4	1 1.5 5.2	1 3.2 6.–	1 3.– 5.5	1 1.9 5.3	1 1.5 5.3	3 2.5 4.7	3 2.4 4.5	3 2.0 4.7	3 1.5 5.0	18
19	2 1.2 4.7	2 1.0 4.7	2 0.8 4.4	2 0.7 4.7	2 1.3 4.5	2 1.0 4.8	2 1.0 4.5	2 1.0 4.7	2 1.3 5.0	2 1.1 4.5	2 1.0 4.4	2 0.9 4.5	19
20	1 0.7 4.5	3 0.8 4.2	3 0.7 3.5	2 0.7 4.0	1 0.9 4.8	3 1.0 3.8	2 0.9 3.5	2 0.8 4.2	1 0.8 4.4	3 0.9 4.0	3 1.0 3.6	2 0.9 4.3	20
21	2 0.7 4.–	2 0.7 4.–	2 0.7 4.6	2 0.6 4.6	2 1.0 4.0	2 0.9 5.–	2 0.9 4.–	2 0.8 4.5	2 0.8 4.3	2 0.8 4.7	2 0.8 4.5	2 0.7 5.0	21
22	2 0.7 4.3	2 0.6 5.–	.. ..	3 0.9 3.6	2 0.8 4.7	2 0.7 5.–	.. ..	3 0.9 3.8	2 0.8 4.3	2 0.9 4.8	.. ..	3 1.0 3.5	22
23	3 0.7 3.–	3 0.7 3.2	3 0.4 4.3	2 0.5 4.6	3 0.9 3.6	3 0.8 3.3	2 0.5 4.3	2 0.6 4.0	3 1.1 3.0	3 0.8 3.5	3 0.6 3.8	3 0.5 4.3	23
24	2 0.4 4.7	2 0.2 5.5	2 0.2 4.7	2 0.4 4.5	2 0.6 5.0	2 0.7 4.2	2 0.4 4.5	2 0.6 4.3	2 0.6 4.0	2 0.3 4.5	2 0.4 4.6	2 0.6 4.0	24
25	2 0.5 3.8	3 0.6 4.0	3 0.8 4.0	3 0.7 3.8	3 0.8 3.5	3 0.9 3.–	3 0.7 4.0	3 0.7 3.9	3 0.9 3.5	3 0.7 3.6	3 0.8 3.8	3 1.0 3.0	25
26	2 0.9 3.5	2 1.0 3.1	2 0.7 2.8	2 0.6 3.2	2 0.9 3.1	2 1.0 2.7	2 1.1 2.5	2 1.2 2.5	2 0.9 3.3	2 0.8 3.0	2 0.8 2.8	2 0.8 2.7	26
27	2 0.4 3.1	2 0.5 3.2	3 0.9 3.5	1 0.8 4.3	2 1.0 2.5	2 0.9 3.2	2 1.4 3.1	1 1.3 3.9	3 0.6 3.0	2 0.8 2.8	3 0.9 4.2	1 1.0 4.5	27
28	1 1.5 4.4	1 1.1 4.5	1 1.1 4.3	1 0.9 4.4	.. ..	1 1.4 4.8	1 1.3 4.6	1 1.0 4.8	.. ..	1 1.2 4.7	1 1.4 4.6	1 1.2 4.2	28

Microseisms. København

1958	*Z*				*N*				*E*				1958
March	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	March
1	1 0.9 4.2	2 0.7 4.7	2 0.5 4.3	2 0.4 4.0	2 0.9 4.6	2 0.8 4.6	2 0.7 4.3	2 0.9 3.7	2 0.9 4.5	2 0.9 4.2	2 0.9 4.0	2 0.7 4.1	1
2	2 0.5 4.2	2 0.6 4.5	2 0.6 4.0	2 0.4 4.5	2 0.9 4.1	2 0.8 4.8	2 0.9 4.2	2 0.8 4.5	2 0.7 3.8	2 0.8 4.0	2 0.7 4.2	2 0.9 4.2	2
3	2 0.6 4.8	3 0.6 4.5	2 0.7 4.7	2 0.8 4.7	2 0.8 4.9	3 0.9 4.2	2 0.8 4.4	2 0.9 4.8	2 0.8 4.1	2 0.7 4.5	2 0.9 4.5	2 0.8 5.0	3
4	2 0.8 4.3	3 1.2 4.2	3 0.9 4.7	3 1.0 4.5	2 1.0 4.7	3 1.3 4.7	3 1.1 4.5	3 1.3 4.7	2 0.9 4.9	3 1.0 4.5	3 1.3 4.4	3 1.4 5.0	4
5	3 1.5 4.2	3 1.4 4.3	3 1.5 5.1	1 1.9 5.0	3 1.5 5.2	3 1.7 4.7	3 2.0 4.7	1 2.0 5.0	1 1.5 4.7	1 2.0 4.8	3 2.3 4.7	3 2.5 4.7	5
6	1 1.8 5.2	3 2.0 4.8	3 2.0 4.7	3 1.8 4.5	1 2.3 4.6	3 2.0 4.5	1 2.4 4.3	1 1.6 4.7	3 2.2 5.0	3 2.5 4.8	1 2.4 4.7	1 1.8 4.0	6
7	3 2.1 3.8	3 1.6 3.8	2 1.5 3.5	2 1.7 2.9	2 2.1 4.2	2 1.9 4.1	2 1.8 3.0	2 2.0 2.4	2 2.1 3.8	2 1.8 3.8	2 2.3 3.1	2 2.2 3.1	7
8	2 0.8 3.5	2 0.6 3.7	2 0.6 4.3	2 0.6 4.2	2 1.3 2.6	2 1.0 2.8	2 0.8 3.5	2 1.0 3.3	2 1.4 2.6	2 1.1 2.9	2 1.0 3.7	2 1.0 3.6	8
9	1 0.6 4.3	1 0.9 5.0	.. ..	2 1.0 4.2	1 1.2 3.3	1 1.2 4.2	.. ..	1 1.2 3.7	1 1.0 4.3	1 1.4 4.1	.. ..	2 1.3 4.6	9
10	2 0.8 4.7	2 0.7 4.3	2 0.8 3.2	2 0.6 4.0	2 1.1 4.0	2 1.2 3.8	2 0.9 4.5	2 0.8 4.4	2 1.1 4.2	2 1.1 3.7	2 1.0 3.7	2 0.8 3.5	10
11	2 0.5 4.0	2 0.4 3.5	2 0.3 2.9	2 0.3 2.8	2 0.7 3.5	2 0.7 2.8	2 0.7 3.1	3 0.7 2.7	2 0.7 3.5	2 0.7 2.9	3 0.6 2.8	3 0.6 2.8	11
12	2 0.3 3.5	2 0.3 4.5	2 0.4 4.7	2 0.4 4.7	2 0.6 3.5	2 0.6 4.2	2 0.6 4.3	2 0.7 5.0	2 0.6 3.1	2 0.4 3.7	2 0.8 4.0	2 0.6 4.5	12
13	2 0.4 4.3	2 0.5 3.8	2 0.4 4.7	2 0.4 4.1	2 0.9 4.0	2 0.8 4.4	2 0.9 3.7	2 0.9 3.2	2 0.6 4.5	2 0.7 4.0	2 0.7 4.1	2 0.7 3.8	13
14	2 0.5 3.7	2 0.6 3.7	2 0.6 3.7	2 0.7 4.0	2 0.8 4.0	2 0.7 4.3	2 0.9 3.7	2 0.9 3.5	2 0.7 3.8	2 0.8 3.8	2 0.8 3.7	2 0.8 3.5	14
15	3 0.7 4.5	3 0.8 4.0	2 0.8 3.8	2 0.8 3.6	3 1.1 4.0	3 1.1 4.2	2 1.2 3.5	2 0.9 4.0	3 1.2 4.1	3 1.1 3.9	2 1.1 3.6	2 1.1 4.2	15
16	2 0.7 4.1	2 0.7 4.0	2 0.5 4.2	2 0.6 3.8	2 0.9 4.2	2 0.9 4.2	2 0.7 4.3	2 0.6 4.5	2 0.9 4.8	2 0.8 4.2	2 0.8 4.0	3 0.6 4.5	16
17	2 0.4 4.0	2 0.4 4.7	2 0.5 4.2	2 0.6 4.2	2 0.7 4.2	2 0.9 4.1	2 0.7 4.8	2 0.8 4.5	2 0.6 4.5	2 0.6 4.7	1 0.8 4.3	1 0.6 5.2	17
18	2 0.5 5.0	2 0.4 4.5	2 0.3 4.5	2 0.3 4.8	2 0.8 4.4	2 0.7 4.3	2 0.4 4.2	2 0.4 3.8	1 0.8 4.9	2 0.5 4.8	2 0.5 4.1	2 0.4 4.6	18
19	2 0.3 4.3	2 0.3 4.3	2 0.3 3.5	2 0.3 4.2	2 0.4 4.4	2 0.4 3.7	2 0.5 3.9	2 0.6 3.4	2 0.4 4.2	2 0.4 3.5	2 0.4 3.7	2 0.4 3.2	19
20	2 0.3 4.3	2 0.3 4.0	2 0.4 3.9	2 0.3 4.5	2 0.6 3.3	2 0.6 3.7	2 0.7 3.9	2 0.6 4.7	2 0.4 3.6	2 0.4 3.4	2 0.6 3.5	2 0.6 3.7	20
21	2 0.4 4.0	2 0.4 4.0	2 0.4 4.0	2 0.4 4.4	2 0.6 4.1	2 0.4 4.0	2 0.5 4.1	2 0.5 4.2	2 0.6 4.5	2 0.5 4.0	2 0.6 3.7	2 0.6 4.2	21
22	2 0.5 4.3	2 0.6 4.5	.. ..	2 0.6 4.7	2 0.6 4.7	2 0.7 3.8	.. ..	2 0.8 4.7	2 0.7 4.3	2 0.7 4.2	.. ..	2 0.8 4.8	22
23	2 0.6 4.5	2 0.4 4.4	2 0.6 4.4	2 0.6 4.8	2 0.8 4.8	2 0.6 4.5	2 0.5 4.3	2 0.6 4.6	2 0.7 4.7	2 0.6 4.7	2 0.6 4.5	2 0.8 4.6	23
24	1 0.7 4.5	1 0.7 4.6	2 0.6 4.7	2 0.6 4.7	2 0.6 4.8	2 0.7 4.7	2 0.7 4.7	2 0.8 4.5	2 0.8 5.1	2 1.0 4.6	2 0.7 4.9	1 0.8 4.5	24
25	2 0.7 4.4	1 0.8 4.5	1 0.9 4.2	1 0.8 4.5	2 0.7 4.3	2 0.8 4.4	1 0.9 4.5	1 0.9 4.7	2 0.9 4.6	1 1.0 4.5	1 1.0 4.2	1 1.0 4.2	25
26	1 0.8 4.5	1 0.8 4.3	2 0.5 4.4	2 0.5 3.9	1 0.9 4.3	2 0.7 4.3	2 0.6 4.0	2 0.5 3.9	1 0.9 4.3	1 0.8 4.1	1 0.7 4.1	2 0.6 4.0	26
27	2 0.5 3.8	2 0.4 4.2	2 0.7 4.1	2 0.6 4.1	2 0.6 3.8	2 0.6 3.8	2 0.6 4.3	2 0.8 4.2	2 0.7 3.9	2 0.7 4.2	2 0.9 4.0	2 0.7 3.7	27
28	3 0.7 3.8	3 0.7 4.0	3 0.7 3.6	3 0.7 3.4	3 0.6 4.0	3 0.6 3.8	3 0.6 3.5	3 0.7 3.8	3 0.8 3.7	3 0.8 3.5	2 0.8 3.8	3 0.8 3.5	28
29	3 0.6 3.7	3 0.7 3.8	3 0.7 3.9	2 0.8 4.3	3 0.8 3.8	3 0.9 3.5	3 0.9 4.0	2 0.9 4.2	3 1.0 4.5	3 1.1 4.8	3 0.9 4.7	2 0.9 4.5	29
30	3 0.8 4.3	3 0.9 4.5	3 0.8 4.2	2 0.8 4.2	3 1.1 4.0	3 1.1 4.1	2 0.8 4.4	2 0.8 4.0	3 1.0 4.5	3 0.8 4.4	3 0.9 4.2	3 0.9 4.0	30
31	2 0.7 4.0	2 0.7 3.9	2 0.6 4.5	2 0.7 4.5	2 0.9 4.2	2 0.8 4.3	2 0.8 4.2	2 0.8 5.0	2 0.8 4.1	2 0.9 4.0	2 0.8 4.7	1 0.7 4.9	31

BIANCO LUNO A/S, KBH.

No. 72

April-June 1958

GEODÆTISK INSTITUT
Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation: chalk

Instruments

Galitzin-Wilip. *N*, *E* and *Z*. $T_p = T_g = 12^1/_2$ sec, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 260$ sec^{-1} or $V_{\max}$ = abt. 1000.
Benioff. *Z'*. $T_p = 1$ sec, $T_g = {}^1/_4$ sec, $V_{\max}$ = abt. 30000.
Wiechert 1000 kg. *N* and *E*. $T = 8^1/_2$ sec, $\nu = 6{:}1$, $\varrho = 0.3$ mm, $V_0 = 210$.
Wiechert 1300 kg. *Z*. $T = 6$ sec, $\nu = 4{:}1$, $\varrho = 0.3$ mm, $V_0 = 150$.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + indicates ground motion towards the north, towards the east, or upwards. – indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

Microseismic Readings

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated. All readings are due to the Galitzin instruments.

April			
3	*eP·Z′ZN*	$2^h27^m20^s$	
	i(PP)·Z′Z	27 26	
	eS·N	30 23	
	i·E	30 26	
	L·NE	31.3	
	Δ = 15°. Albania.		
3	*iP·Z′*	7 23 43	
	i·Z′	23 49	
	eS·NE	28.3	
	L·NE	31	
	Δ = 23°. Near Crete.		
4	*ePS·ZNE*	16 08.4	
	ePPS·ZNE	09.7	
	eSSS·E	19.6	
	L·NE	39	
	Δ = 120°. New Britain.		
7	*iP·Z′Z*	15 40 38	*Z*: 7^s, − 6 μ.
	iS·NE	48 38	
	MS·E	49.0	10^s, 45 μ.
	ML·N	16 02	22^s, 65 μ.
	Δ = 58°. Alaska.		
7	*e·Z′*	16 16 07	
7	*iP·Z′Z*	18 16 59	+
	i·Z′	17 03	
	iS·NE	26 54	
	M·N	49	18^s, 40 μ. (Wiechert.)
	M·E	57	14^s, 35 μ. (Wiechert.)
	Δ = 77°. Japan.		
7	*i·Z′Z*	18 42 11	
	Repetition.		
7	*i·Z′*	18 50 15	
	Repetition.		
7	*e·Z′*	19 01 40	
	Repetition.		
7	*eP·Z′*	19 22 36	
	i·Z′	22 38	
	eS·E	30 08	(Wiechert.)
	i·N	31 20	(Wiechert.)
	eSS·NE	34 01	(Wiechert.)
	M·N	42	14^s, 20 μ. (Wiechert.)
	Δ = 53°. Outer Mongolia.		
8	*eP·Z′*	0 24 14	
	eS·E	32 21	
	L·E	45	
	Δ = 58°. Alaska.		
8	*e·Z′*	2 20 56	

April			
8	*eS·NE*	$10^h14^m11^s$	
	L·NE	24	
	Δ = 44°. Afghanistan.		
10	*L·NE*	11 22	
10	*iP·Z′Z*	12 02 01	
	L·NE	30	
	Δ = 77°. Japan.		
11	*L·NE*	0 10	
11	*iP·Z′Z*	1 10 09	*Z*: 4^s, + 2 μ.
	ePP·NE	13 03	
	eS·NE	19 57	
	eSS·N	25.2	
	L·NE	35	
	Δ = 77°. Japan.		
11	*iP·Z′Z*	23 22 42	+. *Z*: 3^s, 9 μ.
	i·Z	27 57	
	eS·E	31 58	
	e(ScS)·E	32 51	
	L·E	45	
	No *N*-record.		
	Δ = 71°. Kurile Islands.		
12	*eSKS·NE*	12 10 12	
	iS·N	10 17	+
	i·NE	10 30	
	iSS·NE	15 40	
	eSSS·N	19.3	
	L·NE	23	
	Δ = 85°. Lower California.		
12	*iP·Z′*	13 37 44	
	i·Z	37 46	+
	eS·N	48.2	
	e·E	48 26	
	L·NE	14 06	
	Δ = 82°. Ryukyu Islands.		
13	*i·Z′*	3 55 17	+
13	*eP·Z′*	4 18 04	
	L·NE	37	
	Δ = 52°. Outer Mongolia.		
13	*iP·Z′Z*	9 17 25	+
	iS·E	25 26	
	e·N	25 34	
	eScS·E	27 06	
	Paper-shift.		
	Δ = 58°. Alaska.		

April			
13	*iP·Z′Z*	$12^h40^m13^s$	*Z*: 6^s. − 7 μ.
	i·Z′	40 17	
	i·Z′	40 20	
	eS·N	49 17	
	i·E	49 24	
	iSKS·E	50 09	
	L·NE	13 01	
	M·NE	12	18^s. *N*: 35 μ, *E*: 20 μ.
	Δ = 69°. Kamchatka.		
14	*iP·Z′*	3 01 10	−
	L·NE	27	
	Δ = 72°. Kurile Islands.		
14	*L·NE*	16 55	
14	*iP·Z′*	18 19 47	−
	L·NE	48	
	Δ = 68°. Kamchatka.		
14	*iP·Z′Z*	21 45 35	*Z′*: −
	i·Z	45 39	10^s, − 15 μ.
	iPP·ZE	49 07	*Z*: −
	eSKS·E	56 08	
	iS·NE	56 29	*N*: 8^s, 15 μ.
	iPS·N	57 21	
	ePPS·N	58 13	
	L·N	22 12	
	M·NE	22	25^s. *N*: 20 μ, *E*: 25 μ.
	Δ = 91°. Ecuador.		
14	*eP·Z′*	23 01 41	
	Repetition.		
15	*iP·Z′Z*	1 43 49	*Z*: −
	eSKS·E	54 23	
	iS·N	54 49	+
	e·E	54 54	
	ePS·N	55 34	
	Repetition.		
15	*eP·Z′Z*	4 05 24	
	iS·NE	16 05	*N*: +, *E*: −
	e·N	16 27	
	e(PS)·NE	16 41	
	L·NE	32	
	Δ = 86°. Costa Rica.		
17	*L·NE*	11 04	
	Traces of forerunners. New Britain.		
17	*iP·Z′*	11 44 46	+
	e·Z′	45 04	
	L·NE	12 14	
	Δ = 80°. Japan.		
19	*eSKS·NE*	4 26 35	
	eS·N	26 43	
	L·NE	45	
	Δ = 85°. Gulf of California.		

April			
21	*L·NE*	21^h20^m	
21	*iP·Z*	22 50 46	−
	eSKKS·N	23 01 34	
	eS·E	01 59	
	iPS·Z	02 52	−
	e·N	03 01	
	L·NE	21	
	Δ = 95°. Sumatra.		
22	*L·NE*	10 12	
23	*iP·Z′Z*	3 09 19	−
	iPcP·Z′	09 30	
	eS·NE	18 59	
	L·NE	33.5	
	Δ = 75°. Kurile Islands.		
27	*eP·Z′*	19 15 18	
	e(PcP)·Z′	15 31	
	L·NE	40	
	Δ = 73°. Aleutian Islands.		
28	*iP·Z′Z*	12 01 22	−
	iSKS·NE	11 58	
	iS·NE	12 40	
	ePS·E	13 53	
	L·NE	34	
	Δ = 97°. Peru.		
30	*iP·Z*	14 13 39	+ (*Z′* in the time-break)
	eS·N	18 05	
	L·N	20.5	
	No *E*-record.		
	Δ = 26°. Off west coast of Portugal.		
May			
1	*ePKP·Z′Z*	0 48 11	
	i·Z′	48 13	
	iPP·Z	50 55	
	iSKP·Z′Z	51 23	
	ePKS·N	51 48	
	epPKS·ZN	52 38	
	Δ = 133°. *h* = 200 km. New Hebrides Islands.		
1	*L·E*	21 25.4	
	L·ZN	26.0	
3	*L·NE*	8 37	
3	*eP·Z′Z*	20 23 02	
	eS·NE	26.8	
	L·NE	29.4	
	Δ = 21°. Greece.		

May			
5	*eP·Z'Z*	$5^h27^m39^s$	
	eS·N	32 38	
	eSS·N	34.0	
	L·N	38.3	
	$\Delta = 30^\circ$. Iran-Iraq border.		
5	*iP·Z'Z*	6 42 31	–
	i·Z'	42 41	
	i·Z'Z	42 45	
	ePP·Z	44 58	
	eS·NE	51 23	
	ePS·NE	51 38	
	eSS·N	56.0	
	L·NE	7 07	
	$\Delta = 67^\circ$. Belgian Congo.		
6	*L·ZNE*	0 28	
6	*L·ZNE*	4 26	
6	*eP·Z*	14 30 19	
	eS·E	34 47	
	L·NE	38.3	
	$\Delta = 26^\circ$. *Az*: WNW. North Atlantic Ocean.		
7	*L·NE*	7 44	
7	*L·ZE*	15 16	
8	*eS·N*	2 57 58	
	eSS·N	58 46	
	L·NE	3 03	
9	*iP·Z'Z*	2 45 41	
	iS·ZNE	49 45	
	L·NE	52	
	M·NE	56	12^s. *N*: 6 μ, *E*: 8 μ.
	$\Delta = 23^\circ$. Rhodes Island.		
10	*e·Z'*	17 47 05	
10	*iP·Z'*	23 04 41	+
	L·NE	26	
	$\Delta = 60^\circ$. Alaska.		
11	*eP·Z'*	5 34 00	
	iS·E	42 15	
	L·NE	55	
	$\Delta = 60^\circ$. Alaska.		
12	*L·E*	13 50	
	No *N*-record.		
12	*iP·Z'Z*	17 02 18	–
	eS·E	12 29	
	L·E	34	
	No *N*-record.		
	$\Delta = 83^\circ$. $h = 150$ km. Japan.		
May			
15	*L·NE*	14^h57^m	
15	*L·NE*	19 34	
16	*L·NE*	9 31	
17	*L·NE*	9 40	
17	*L·NE*	7 59	
18	*iPKP·Z*	2 52 13	–
	iPP·Z	54 38	+
	iPKS·NE	55 42	*N*: +, *E*: +
	i·NE	56 00	*E*: –
	iPPP·E	57 07	
	e(PPP2)·N	3 07.3	
	L·NE	38	
	$\Delta = 133^\circ$. New Hebrides Islands.		
18	*iPKP·Z*	12 40 41	
	iPP·Z	43 10	
	ePKS·N	44 04	
	i·E	44 09	
	i·Z	44 16	
	e·E	53.0	
	e·N	53.6	
	L·NE	13 27	
	$\Delta = 133^\circ$. New Hebrides Islands.		
19	*e·NE*	1 11.3	
	L·NE	25	
19	*L·NE*	2 47	
19	*e·Z'*	23 19 11	dubious.
	e·Z'	19 32	
	$\Delta = 8^\circ$. Ålesund, Norway.		
22	*L·NE*	16 05	
25	*L·NE*	0 21	
25	*L·NE*	1 16	
25	*L·NE*	3 22	
25	*i·Z'*	9 17 58	
25	*iP·Z'*	15 06 04	
	L·E	34	
	$\Delta = 74^\circ$. Aleutian Islands.		
25	*iP·Z'*	17 52 51	–
	L·NE	18 23	
	$\Delta = 78^\circ$. Japan.		

May			
25	*eP·Z'Z*	$21^h24^m56^s$	
	iSKS·E	35 32	
	iS·E	36 05	
	ePS·E	37 10	
	L·E	21.9	
	No time-marking on *N*.		
	$\Delta = 93^\circ$. $h = 100$ km. Ecuador-Peru border.		
27	*iP·Z'Z*	18 32 18	+
	i·Z'	32 34	
	e·Z'	32 44	
	eS·E	36 02	
	e·Z	36 23	
	iScS·E	43 22	
	$\Delta = 21^\circ$. $h = 170$ km. Aegean Sea.		
28	*e·Z*	0 09.5	
	L·NE	32	
	$\Delta = 118^\circ$. New Guinea.		
29	*iP·Z'*	3 23 51	+
	$\Delta = 43^\circ$. Tadzhik S.S.R.		
29	*eP·Z'*	5 33 23	
	$\Delta = 86^\circ$. $h = 450$ km. Bonin Islands.		
30	*iP·Z'*	1 18 01	
	$\Delta = 45^\circ$. Hindu Kush.		
30	*L·NE*	3 23	
30	*L·NE*	5 30	
30	*L·NE*	13 43	
30	*eP·Z'*	16 23 39	
	epP·Z	24 26	
	eS·NE	33 37	
	ePS·NE	34 25	
	L·NE	51	
	$\Delta = 80^\circ$. $h = 100$ km. Formosa.		
30	*iP·Z'Z*	18 16 17	
	i·Z'Z	16 22	*Z'*: –, *Z*: +
	eS·NE	25 53	
	e·N	26 30	
	i·N	26 41	
	L·NE	39	
	$\Delta = 72^\circ$. Aleutian Islands.		
31	*L·NE*	4 02	
31	*L·NE*	9 44	
May			
31	*ePKP·Z*	$19^h51^m46^s$	
	i·Z'Z	52 00	
	i·Z'	52 10	
	ePP·ZNE	54 42	
	iPKS·E	55 25	
	i·ZNE	55 45	
	i·E	56 38	
	iSS·E	20 12 28	
	e·N	13 23	
	L·NE	32	
	M·N	43	26^s, 40 μ.
	$\Delta = 135^\circ$. New Hebrides Islands.		
June			
1	*iP·Z'*	18 31 45	–
	$\Delta = 63^\circ$. Alaska.		
3	*e·Z'*	15 50 25	
3	*ePKP·Z'*	19 51.2	
	e·Z	51 16	
	ePP·Z	53 56	
	iPKS·NE	54 49	
	eSS·E	20 12.0	
	L·NE	33	
	$\Delta = 135^\circ$. New Hebrides Islands.		
4	*iP·Z'Z*	14 41 16	*Z*: +
	ePPP·N	45 45	
	e·N	47 04	
	eS·N	50 52	
	ePS·N	51 18	
	eSKS·E	51 33	
	L·NE	15 06	
	$\Delta = 73^\circ$. Aleutian Islands.		
5	*iP·Z'*	13 34 12	–
	ePP·N	34 26	
	eS·E	37 45	
	e·N	37 49	
	L·NE	40	
	$\Delta = 20^\circ$. Mediterranean Sea.		
6	*iP·Z'*	9 24 08	+ (*Z*: e –)
	i·Z'	24 17	
	ePP·Z	27 38	
	eSKS·NE	34 35	
	iS·NE	34 53	
	iPS·NE	35 37	
	i·N	36 47	
	L·NE	48	
	$\Delta = 87^\circ$. Off Costa Rica.		
6	*e·Z'*	13 00 19	

June			
6	*eP·Z*	$19^h28^m28^s$	
	eSKS·E	39 04	
	iS·N	39 16	
	e·E	39 23	
	L·NE	54	
	Δ = 89°. Costa Rica.		
6	*eS·N*	23 07 38	
	L·NE	28	
	Δ = 87°. Costa Rica.		
7	*ePP·Z*	13 18 23	
	e·E	26.3	
	L·NE	14.3	
	Δ = 150°. South of Tasmania.		
8	*eP·Z*	0 50 15	
	eS·NE	59.6	
	eScS·NE	1 00 21	
	L·NE	16	
	Δ = 72°. Aleutian Islands.		
8	*eS·NE*	21 28 02	
	eSSS·NE	34.6	
	L·NE	37	
	Δ = 61°. Atlantic Ocean.		
10	*iP·Z′Z*	7 11 17	
	eS·NE	17 12	
	L·NE	23	
	Δ = 38°. Western Iran.		
10	*L·NE*	8 36	
12	*e(SKS)·N*	12 17 40	
	e(PS)·N	18 28	
	L·NE	36	
	Δ = 88°. Costa Rica.		
12	*iP·Z′Z*	21 04 24	*Z′*: –
	i·ZN	04 28	*Z*: –
	eS·NE	13 44	
	e·N	14 28	
	eSS·N	18.1	
	L·NE	28	
	Δ = 73°. Aleutian Islands.		
12	*iP·Z′*	21 44 51	
	Repetition.		
14	*e·Z′*	19 29 59	
15	*iPKP·Z′*	2 59 44	–
	Δ = 142°. Fiji Islands.		
June			
15	*ePKP·Z′*	$15^h12^m57^s$	
	e·Z′Z	13 02	
	epPKP·Z	15 19	
	iSKP·Z′Z	15 56	
	ePP·N	16.3	
	eSKS·NE	18 59	
	ePPP·Z	19 29	
	i(sPPP)·N	22 16	
	Δ = 142°. *h* = 600 km. Fiji Islands.		
16	*L·ZNE*	9 21	
16	*i·Z′Z*	19 11 17	
17	*eP·Z′*	17 01 46	
	e·E	07.1	
	L·NE	18	
17	*iP·Z′*	19 19 37	–
	eSKS·N	30 22	
	eS·E	30 34	
	eSS·E	36.3	
	L·NE	48	
	Δ = 89°. Volcano Islands.		
18	*iP·Z′ZNE*	1 19 21	*Z*: 3^s, + 5 μ.
	iS·NE	22 58	*E*: 9^s, + 4 μ.
	iSS·ZNE	23 13	
	L·ZNE	24.6	
	Δ = 19°. North of Iceland.		
18	*eP·ZNE*	2 27 46	
	eS·ZNE	31 27	
	L·NE	32.7	
	Δ = 19°. Repetition.		
18	*eiP·Z*	4 38 23	
	eS·NE	41 59	
	L·NE	43.4	
	Δ = 19°. Repetition.		
18	*L·NE*	19 55	
19	*iP·Z*	5 29 16	
	ePPP·Z	33 21	
	eS·NE	38 30	
	eSKS·NE	39 18	
	eSS·N	43.4	
	L·NE	51	
	Δ = 71°. Kurile Islands.		
20	*(L)·N*	1 10	
20	*L·NE*	2 09	
20	*iPKP·Z′Z*	17 51 08	–
	Δ = 144°. *h* = 600 km. Fiji Islands.		

June			
20	*eP·Z′*	$19^h29^m11^s$	
	L·NE	20.0	
	Δ = 78°. China Sea.		
23	*eP·Z′Z*	5 19 14	*Z′* 4^s earlier?
	ePP·E	21 13	
	eS·NE	26 33	
	eSS·N	30 30	
	L·NE	34	
	M·NE	40	15^s. *N*: 20 μ, *E*: 15 μ.
	Δ = 51°. Outer Mongolia.		
24	*iP·Z*	4 56 36	+
	e·Z′	38	
	ePP·E	58 22	
	iPPP·Z′	58 49	
	eS·NE	5 03 17	
	eSS·N	06 22	
	L·NE	11	
	Δ = 46°. Sinkiang Province, China.		
24	*L·NE*	6 13	
24	*L·NE*	7 31	
25	*iP·Z′*	1 20 45	
	e·NE	26 11	
	L·NE	30	
25	*i·Z′*	2 01 09	
25	*i·Z′*	9 47 30	–
25	*eP·Z*	9 51 30	
	ePP·Z	56 18	
	ePPP·ZN	58 15	
	eSKKS·E	10 03 11	
	e·N	04 35	
	ePS·NE	06 00	
	ePPS·E	07 03	
	i·N	07 47	
	L·NE	33	
	M·ZNE	46	20^s. *Z*: 90 μ, *N*: 55 μ, *E*: 100 μ.
	Δ = 115°. New Guinea.		
26	*iP·Z′Z*	4 49 07	–
	i·Z′	49 33	
	i·Z	49 38	–
	iS·NE	57 52	*N*: –, *E*: –
	iSKS·NE	58 46	*N*: –, *E*: +
	Δ = 67°. Kamchatka.		
June			
26	*eP·Z*	$7^h51^m45^s$	
	L·NE	8 25	
	Δ = 83°. Ryukyu Islands.		
26	*eP·Z*	23 42 05	
	e·Z	43 03	
	ePP·Z	45 22	
	eSKS·NE	52 22	
	eSS·E	57.6	
	L·NE	24 12	
	Δ = 83°. Japan.		
27	*eP·Z*	5 57 02	
	epP·Z	57 20	
	ePP·Z	6 00 23	
	epPP·Z	00 40	
	eSKS·E	07 30	
	eS·E	07 30	
	ePS·N	08 15	
	L·NE	22	
	Δ = 85°. *h* = 60 km. San Salvador.		
29	*ePP·Z*	3 43 55	
	e·Z	46 37	
	eSKS·E	49 39	
	eSS·E	57 23	
	L·NE	4 21	
	Δ = 99°. *h* = 150 km. Peru.		
30	*iP·Z*	8 47 28	+
	iPP·Z	47 45	–
	iS·E	51 23	
	iSS·E	52 09	
	L·E	53.8	
	Δ = 22°. Dodecanese Islands.		
30	*eP·Z′Z*	18 38 48	
	ePP·Z	42 08	
	iSKS·E	49 10	
	L·E	19 09	
	Δ = 83°. Japan.		

July 1958. **HENRY JENSEN**

Microseisms. København

1958 April	Z				N				E				1958 April
	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	
1	1 0.7 4.5	3 0.6 4.5	3 0.5 3.8	3 0.5 4.0	3 0.8 4.7	3 0.7 4.8	3 0.7 3.7	2 0.6 3.5	1 0.7 4.5	3 0.7 4.7	3 0.8 3.2	3 0.7 3.8	1
2	2 0.4 3.4	2 0.4 3.7	2 0.5 4.0	2 0.4 4.0	2 0.5 4.5	2 0.6 4.0	2 0.7 4.2	2 0.6 4.8	2 0.6 4.5	2 0.5 4.8	3 0.5 4.6	2 0.6 3.9	2
3	2 0.4 4.6	2 0.4 4.6	2 0.5 4.0	2 0.5 4.4	2 0.6 4.6	2 0.6 4.5	2 0.7 4.4	2 0.7 4.6	2 0.5 4.5	2 0.5 4.8	3 0.8 4.5	3 0.8 4.5	3
4	3 0.5 4.5	3 0.5 4.5	3 0.6 4.3	3 0.5 4.3	2 0.7 4.2	3 0.8 4.0	3 0.6 4.3	3 0.7 4.1	3 0.7 4.5	3 0.7 4.5	3 0.7 4.4	3 0.7 4.2	4
5	2 0.4 4.6	2 0.3 4.3	2 0.3 4.3	2 0.3 4.3	2 0.6 3.8	2 0.4 4.1	2 0.6 4.2	2 0.5 4.3	3 0.6 4.5	2 0.4 4.4	2 0.4 4.2	2 0.4 4.3	5
6	2 0.2 4.2	2 0.2 3.8	2 0.2 4.2	2 0.4 4.3	2 0.6 4.2	2 0.6 3.8	2 0.5 3.9	2 0.7 4.1	2 0.4 4.2	2 0.3 3.7	2 0.4 4.0	2 0.6 4.0	6
7	3 0.5 4.4	3 0.6 4.5	1 0.7 5.1	.. ..	2 0.7 4.6	2 0.7 4.7	1 1.0 5.4	.. ..	3 0.6 4.5	3 0.7 4.5	1 0.8 5.0	.. ..	7
8	2 0.5 4.9	2 0.4 4.0	3 0.4 4.2	3 0.4 3.9	2 0.7 4.7	2 0.7 4.2	2 0.6 3.4	2 0.6 4.1	2 0.7 4.5	2 0.5 4.3	2 0.6 4.0	3 0.4 4.3	8
9	3 0.5 4.4	1 0.8 5.5	1 1.1 5.1	3 0.7 5.0	2 0.6 4.1	3 1.0 5.0	1 1.0 5.0	1 0.8 5.0	1 0.7 4.8	3 0.9 4.5	1 1.4 4.9	1 0.9 4.9	9
10	3 0.6 3.7	3 0.5 4.0	1 0.8 4.4	1 0.3 3.8	3 0.8 3.6	1 0.7 3.6	2 0.7 3.7	2 0.6 4.0	3 0.8 3.4	3 0.7 3.6	2 0.6 3.4	2 0.5 3.5	10
11	2 0.3 4.2	2 0.3 4.5	1 0.4 4.5	1 0.6 4.8	2 0.6 3.7	2 0.6 4.0	.. ..	.. ..	2 0.4 3.3	2 0.5 4.8	1 0.7 4.0	1 0.7 4.1	11
12	.. ..	1 0.5 4.0	1 0.5 4.7	1 0.6 5.0	.. ..	.. ..	2 0.6 4.5	1 0.7 4.6	.. ..	1 0.6 4.0	1 0.5 4.7	1 0.7 4.6	12
13	1 0.5 4.4	1 0.4 4.2	2 0.2 4.0	2 0.2 4.2	1 0.7 4.2	2 0.6 4.2	2 0.5 3.6	2 0.4 3.8	1 0.8 4.6	2 0.5 4.3	2 0.4 4.5	2 0.3 4.2	13
14	2 0.2 4.0	2 0.2 4.2	2 0.2 4.3	2 0.3 4.1	2 0.4 3.7	2 0.5 3.5	2 0.4 3.7	2 0.5 3.7	2 0.3 4.3	2 0.3 4.3	2 0.4 4.3	2 0.4 4.2	14
15	.. ..	1 0.5 4.3	1 0.7 4.3	1 0.8 4.8	.. ..	1 0.7 4.0	1 1.0 4.5	1 1.0 5.4	.. ..	1 0.6 4.5	1 1.0 4.8	1 1.3 5.0	15
16	1 1.2 5.9	1 1.3 5.5	1 1.4 5.3	1 1.0 5.7	1 1.6 6.0	1 1.6 5.7	1 1.4 5.5	1 1.0 6.0	1 1.3 5.5	1 1.5 6.0	1 1.5 5.5	1 1.0 5.5	16
17	1 0.7 5.2	1 0.5 4.8	1 0.5 4.7	1 0.3 4.7	1 0.9 5.3	1 0.6 4.8	2 0.6 4.3	2 0.5 4.8	1 0.8 4.7	1 0.7 5.0	1 0.8 4.5	2 0.5 4.7	17
18	2 0.3 4.8	2 0.3 4.5	2 0.2 4.5	2 0.3 4.0	2 0.4 4.5	2 0.4 4.3	2 0.4 4.1	2 0.4 4.1	2 0.4 4.2	2 0.3 4.5	2 0.4 4.5	2 0.4 4.0	18
19	2 0.2 4.3	2 0.2 4.6	2 0.3 4.3	2 0.3 3.9	2 0.4 3.7	2 0.4 4.2	2 0.4 3.6	2 0.4 2.8	2 0.4 4.1	2 0.3 3.8	2 0.4 3.4	2 0.4 3.6	19
20	2 0.3 4.3	2 0.3 4.0	2 0.3 4.0	2 0.3 4.5	2 0.4 3.3	2 0.3 3.2	2 0.4 3.6	2 0.5 3.5	2 0.4 3.9	2 0.4 4.0	2 0.4 3.6	2 0.4 4.1	20
21	1 0.7 5.0	1 0.6 4.5	1 0.6 4.8	2 0.5 4.7	3 0.8 4.2	3 0.7 4.2	3 0.9 5.0	2 0.7 4.2	1 0.7 4.7	3 0.8 4.3	3 0.7 5.0	3 0.6 4.3	21
22	3 0.5 4.7	3 0.5 3.4	3 0.4 2.9	3 0.5 3.9	3 0.7 3.2	3 0.8 3.1	3 0.8 2.8	3 0.7 4.2	3 0.5 4.5	3 0.5 3.0	3 0.6 3.1	3 0.7 3.2	22
23	1 0.6 5.5	.. ..	1 0.8 6.–	1 1.0 6.–	1 0.7 5.3	1 0.8 6.0	1 1.1 6.5	1 1.2 6.8	1 0.7 4.5	1 0.6 4.5	1 0.9 6.5	1 1.2 6.3	23
24	3 1.0 6.–	3 1.2 6.0	.. ..	3 1.6 5.–	3 1.4 6.5	3 1.2 6.3	.. ..	3 1.2 5.0	3 1.1 5.5	3 1.2 5.7	.. ..	3 1.4 5.2	24
25	3 1.5 5.–	3 1.0 4.–	3 1.1 4.7	3 1.0 3.7	3 1.2 5.8	3 1.0 5.4	3 0.8 4.2	3 0.8 4.–	3 1.2 5.5	3 1.1 4.5	3 1.0 4.5	3 0.8 3.5	25
26	3 1.0 4.–	3 0.9 4.–	3 1.0 4.1	3 1.0 3.8	3 0.9 4.–	3 0.8 4.–	3 0.7 3.4	3 0.7 3.5	3 1.0 3.5	3 0.8 4.–	3 0.8 4.–	3 0.7 4.–	26
27	3 0.8 3.–	3 0.6 3.5	3 0.4 3.5	3 0.4 3.5	3 0.7 3.5	3 0.7 4.–	3 0.7 3.7	3 0.6 3.5	3 0.9 2.7	3 0.6 3.8	3 0.6 3.7	3 0.5 3.7	27
28	3 0.4 3.–	3 0.4 3.–	3 0.5 2.8	3 0.4 2.8	3 0.9 2.5	3 0.7 3.–	3 0.6 2.7	3 0.8 2.7	3 0.6 3.–	3 0.6 2.–	3 0.6 2.7	3 0.6 2.5	28
29	3 0.4 2.8	2 0.4 4.0	2 0.4 5.–	2 0.5 4.–	3 0.5 3.–	3 0.6 3.0	3 0.5 4.5	3 0.6 4.5	3 0.4 3.–	3 0.4 4.–	3 0.5 5.–	3 0.4 4.7	29
30	1 0.6 5.–	1 0.9 5.0	1 0.9 5.0	1 0.8 5.0	1 0.7 4.5	1 1.0 5.–	1 0.9 5.–	1 0.7 4.5	1 0.7 4.5	1 0.7 5.0	.. ..	.. ..	30

Microseisms. København

1958 May	Z				N				E				1958 May
	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	
1	1 0.7 4.5	1 0.7 4.5	1 0.8 4.2	1 0.7 4.4	1 0.6 4.5	1 0.5 4.5	1 0.6 4.6	1 0.6 4.5	.. ..	.. ..	1 0.6 4.3	1 0.7 4.8	1
2	1 0.6 4.5	1 0.5 4.8	2 0.4 4.–	3 0.6 4.–	1 0.4 4.7	1 0.3 4.5	2 0.4 4.5	3 0.7 3.5	1 0.5 4.6	1 0.4 4.7	1 0.4 4.3	1 0.6 4.2	2
3	3 0.8 3.–	3 0.9 3.–	1 0.9 4.1	1 1.1 3.5	3 0.7 3.–	3 0.9 3.–	1 0.8 3.7	1 0.7 4.2	3 0.9 3.–	3 0.8 3.–	3 0.8 3.5	3 0.8 3.5	3
4	3 0.7 3.8	3 0.5 3.3	3 0.6 3.–	3 0.4 3.2	1 0.6 3.7	3 0.5 3.0	3 0.4 3.5	3 0.5 3.5	3 0.7 3.3	3 0.6 3.–	3 0.4 3.3	3 0.3 3.3	4
5	3 0.4 3.–	3 0.5 3.5	3 0.3 4.–	3 0.3 4.–	3 0.5 3.7	3 0.4 4.–	2 0.4 4.0	2 0.4 4.–	3 0.4 3.–	3 0.5 4.–	2 0.4 3.5	2 0.4 4.0	5
6	3 0.3 4.0	3 0.3 4.–	.. ..	2 0.5 3.5	2 0.4 4.–	2 0.4 3.5	.. ..	2 0.4 3.5	2 0.3 3.5	2 0.3 3.8	.. ..	2 0.4 4.–	6
7	3 0.5 3.5	3 0.6 3.5	3 1.1 3.3	3 0.9 3.2	3 0.5 3.5	3 0.8 3.3	3 0.9 3.3	3 0.7 3.5	3 0.5 3.7	3 0.7 3.5	3 0.7 3.8	3 0.7 4.2	7
8	3 0.7 3.5	3 0.9 4.–	.. ..	1 0.9 4.3	3 0.6 3.8	3 0.7 4.–	.. ..	1 0.8 4.5	3 0.7 3.5	3 1.2 4.–	.. ..	1 1.1 4.7	8
9	1 0.8 4.2	3 1.0 4.0	3 0.8 4.1	3 0.8 4.0	3 0.7 4.5	3 0.7 4.2	3 0.8 3.8	3 0.7 4.2	1 0.8 4.3	3 0.9 4.2	3 0.5 4.5	3 0.6 4.1	9
10	3 0.7 4.0	3 0.7 3.8	1 1.0 5.–	1 1.2 5.–	3 0.6 3.8	3 0.7 4.0	1 1.0 5.–	1 1.2 5.–	3 0.6 4.5	3 0.7 4.–	1 0.9 4.5	1 1.4 5.0	10
11	1 1.1 5.–	1 1.2 5.–	1 0.9 4.7	3 0.6 4.5	1 1.1 5.–	.. ..	1 0.8 4.8	2 0.8 4.2	.. ..	.. ..	1 0.8 4.7	2 0.7 4.2	11
12	3 0.6 3.5	3 0.5 3.5	3 0.5 3.5	3 0.5 3.5	3 0.8 3.–	3 0.6 3.5	.. ..	.. ..	3 0.8 3.5	3 0.6 3.5	3 0.4 3.5	3 0.4 3.4	12
13	3 0.5 3.8	3 0.7 3.3	3 0.5 3.7	3 0.4 3.7	.. ..	.. ..	2 0.4 3.7	2 0.4 3.3	3 0.4 3.6	3 0.4 3.6	1 0.4 4.3	1 0.4 3.8	13
14	2 0.4 3.7	2 0.4 3.7	3 0.5 3.8	3 0.4 4.–	2 0.4 3.2	2 0.4 3.5	2 0.5 3.7	2 0.5 3.8	1 0.4 4.0	1 0.3 3.7	2 0.4 3.7	2 0.4 3.3	14
15	2 0.4 3.5	2 0.4 3.5	3 0.4 3.8	3 0.4 3.5	2 0.5 3.3	2 0.4 3.5	2 0.5 3.3	2 0.4 3.–	2 0.4 3.2	2 0.3 3.3	2 0.3 3.5	2 0.3 3.–	15
16	3 0.4 3.5	2 0.5 4.–	2 0.3 3.6	2 0.3 4.–	2 0.4 4.–	2 0.5 4.–	2 0.4 3.8	2 0.4 4.0	2 0.4 4.0	2 0.4 4.0	2 0.3 3.7	2 0.3 3.3	16
17	2 0.4 3.8	3 0.5 2.5	3 0.6 2.7	3 0.6 2.5	2 0.4 4.2	3 0.6 2.5	3 0.8 2.0	3 0.7 2.7	2 0.4 3.9	3 0.6 2.5	3 0.6 2.2	3 0.5 2.6	17
18	3 0.5 2.6	3 0.7 3.0	3 0.7 3.5	3 0.6 3.8	3 0.7 2.4	3 0.7 3.2	3 0.8 3.3	3 0.6 2.8	3 0.5 2.5	3 0.6 3.–	3 0.7 3.2	3 0.6 3.6	18
19	3 0.5 3.2	3 0.6 3.0	3 0.5 4.–	3 0.4 4.0	3 0.4 3.7	3 0.6 3.6	3 0.5 4.3	3 0.5 4.2	3 0.5 3.3	3 0.5 3.5	3 0.5 4.0	2 0.5 4.6	19
20	1 0.7 4.–	1 0.9 4.2	1 1.4 4.3	1 1.3 4.5	1 0.7 4.0	1 0.7 4.3	1 1.2 4.6	1 1.3 4.2	3 0.8 4.0	1 1.0 4.0	1 1.4 4.7	1 1.2 4.7	20
21	1 1.1 4.5	1 1.0 4.5	1 1.0 4.2	3 1.0 4.–	1 1.1 4.3	1 1.0 4.5	3 0.8 4.3	3 0.8 4.–	1 1.1 4.4	1 1.2 4.3	1 1.0 4.5	1 0.8 4.3	21
22	3 1.0 4.–	1 1.2 4.–	3 0.7 4.3	1 1.0 4.0	3 0.8 4.3	3 0.9 4.–	3 0.9 4.3	1 0.7 4.3	1 0.8 4.–	1 1.0 4.5	3 0.9 4.–	1 1.1 4.0	22
23	1 1.4 4.1	1 1.4 4.6	1 1.1 4.3	3 0.8 4.1	1 1.2 4.5	1 1.4 4.5	1 1.2 4.1	1 0.9 3.8	1 1.4 4.5	1 1.3 4.5	1 1.0 4.5	1 0.8 4.0	23
24	2 0.5 4.2	2 0.6 3.3	1 0.9 4.1	1 0.8 4.5	2 0.6 3.8	2 0.6 3.9	1 1.0 4.2	1 1.0 4.2	2 0.5 3.7	2 0.5 3.7	1 0.9 4.2	1 1.0 3.7	24
25	1 1.0 4.2	1 0.7 4.0	1 0.6 4.1	3 0.5 4.0	1 0.8 4.2	3 0.6 4.0	3 0.6 3.9	3 0.7 3.9	1 0.8 3.8	3 0.5 4.0	3 0.7 4.0	3 0.5 4.0	25
26	2 0.5 4.0	2 0.4 4.0	3 0.4 3.5	3 0.5 2.2	3 0.5 3.7	2 0.4 3.7	3 0.8 2.5	3 0.9 2.3	3 0.5 4.0	3 0.4 3.7	3 0.5 2.8	3 0.5 2.3	26
27	2 0.4 3.2	2 0.4 3.2	2 0.4 3.–	2 0.4 3.3	3 0.7 2.8	3 0.7 3.0	2 0.6 3.4	2 0.6 3.5	3 0.4 3.5	3 0.4 3.1	2 0.4 3.3	2 0.3 3.6	27
28	2 0.4 3.8	2 0.4 3.5	2 0.4 3.5	3 0.5 2.4	3 0.7 3.5	3 0.7 3.4	3 0.6 2.9	3 0.6 2.5	3 0.4 3.7	3 0.4 3.9	3 0.5 3.1	3 0.5 2.3	28
29	3 0.5 2.4	3 0.5 2.2	3 0.5 2.8	3 0.4 3.8	3 0.5 2.7	3 0.5 3.0	3 0.4 3.5	3 0.4 3.8	3 0.4 3.0	3 0.5 2.5	3 0.3 3.3	3 0.2 4.1	29
30	2 0.3 3.8	2 0.3 4.0	2 0.2 4.0	3 0.3 2.–	2 0.4 4.–	2 0.4 4.–	2 0.4 2.8	3 0.5 2.3	3 0.2 3.8	3 0.2 3.5	2 0.2 3.5	2 0.4 2.2	30
31	3 0.4 2.–	3 0.4 2.5	3 0.4 2.8	3 0.4 2.8	3 0.6 2.–	3 0.6 2.5	3 0.4 3.–	3 0.5 3.2	3 0.4 2.2	3 0.4 2.3	3 0.4 2.7	3 0.4 2.8	31

Microseisms. København

1958	Z				N				E				1958
June	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	June
1	3 0.3 3.5	3 0.3 3.5	3 0.4 2.8	3 0.3 3.4	3 0.5 3.–	3 0.5 3.–	2 0.5 3.–	3 0.5 3.0	3 0.4 2.9	2 0.2 3.–	2 0.2 3.–	2 0.2 3.2	1
2	2 0.3 3.1	2 0.2 3.3	2 0.2 4.–	2 0.2 4.2	2 0.4 3.5	2 0.4 4.2	2 0.2 3.8	2 0.2 4.0	2 0.2 2.8	2 0.2 3.3	2 0.2 4.–	2 0.2 3.2	2
3	2 0.2 3.9	2 0.2 3.8	2 0.3 3.7	2 0.3 3.9	2 0.3 4.0	2 0.3 3.8	2 0.4 3.8	2 0.4 4.0	2 0.2 3.7	2 0.2 3.7	2 0.2 3.6	1 0.2 3.7	3
4	1 0.3 4.0	1 0.4 4.0	1 0.4 3.8	1 0.5 3.8	1 0.4 4.0	1 0.4 4.0	1 0.5 3.8	1 0.5 3.8	1 0.2 4.0	1 0.3 4.0	1 0.4 4.0	1 0.5 4.2	4
5	1 0.5 4.0	3 0.7 3.3	3 0.5 3.1	3 0.5 2.2	3 0.5 4.0	3 0.6 3.2	3 0.5 3.0	3 0.5 2.2	3 0.5 3.9	3 0.5 3.5	3 0.4 3.0	3 0.5 2.0	5
6	3 0.5 2.3	3 0.4 3.0	3 0.4 3.5	3 0.4 3.7	3 0.3 2.5	2 0.2 3.4	3 0.7 3.0	3 0.6 3.0	3 0.3 2.8	2 0.2 3.0	2 0.4 3.0	2 0.4 3.1	6
7	3 0.4 3.0	2 0.4 3.0	2 0.4 3.4	2 0.4 3.6	2 0.6 3.0	2 0.5 3.2	3 0.6 3.4	2 0.7 3.3	2 0.4 3.0	2 0.4 2.8	3 0.4 3.5	2 0.4 3.5	7
8	2 0.5 3.3	2 0.4 3.7	2 0.4 3.7	2 0.4 3.8	2 0.6 3.2	2 0.6 3.3	2 0.5 3.6	2 0.6 3.8	2 0.4 3.5	2 0.3 3.7	2 0.2 4.0	2 0.4 4.0	8
9	2 0.4 3.9	2 0.4 3.2	2 0.4 3.5	3 0.5 3.3	2 0.5 3.7	2 0.5 3.6	2 0.6 3.2	3 0.6 3.4	2 0.3 3.5	3 0.4 3.2	3 0.5 3.2	3 0.5 3.2	9
10	1 0.6 3.5	3 0.4 3.3	3 0.6 3.2	3 0.5 3.7	1 0.8 3.2	3 0.7 3.1	3 0.6 3.4	3 0.6 3.5	3 0.6 3.1	3 0.5 3.3	3 0.5 2.9	.. ..	10
11	3 0.4 3.7	2 0.4 3.9	3 0.4 3.2	2 0.4 4.2	3 0.6 3.5	3 0.6 3.6	3 0.4 4.3	2 0.4 4.0	.. ..	.. ..	2 0.3 4.3	2 0.3 4.5	11
12	2 0.3 3.8	2 0.2 4.1	2 0.4 4.0	2 0.4 3.9	2 0.4 4.0	2 0.4 4.5	2 0.4 4.1	2 0.4 4.3	2 0.3 4.6	2 0.3 4.8	2 0.3 4.3	2 0.3 4.0	12
13	3 0.4 3.8	3 0.4 2.8	3 0.4 2.5	2 0.4 2.8	3 0.5 3.6	3 0.6 2.6	3 0.4 3.3	3 0.4 2.7	3 0.3 4.0	3 0.4 3.5	3 0.3 3.0	3 0.2 2.5	13
14	3 0.4 2.9	3 0.4 3.3	3 0.4 3.7	3 0.4 4.0	3 0.4 3.5	3 0.4 3.5	3 0.4 5.–	3 0.4 5.0	3 0.4 2.7	3 0.4 3.3	3 0.4 4.4	3 0.4 4.0	14
15	3 0.3 4.6	2 0.4 5.5	2 0.3 4.9	2 0.3 4.7	3 0.3 5.5	3 0.4 6.0	2 0.4 5.3	2 0.4 5.0	3 0.4 4.5	3 0.4 4.7	2 0.3 5.2	2 0.3 4.6	15
16	2 0.3 4.3	2 0.2 4.3	2 0.3 4.5	2 0.3 4.8	2 0.4 5.2	2 0.4 5.4	2 0.4 5.3	2 0.3 5.3	2 0.3 4.8	2 0.3 4.8	2 0.3 5.0	2 0.2 4.6	16
17	2 0.2 4.8	2 0.2 4.7	2 0.3 4.7	2 0.2 4.3	2 0.2 5.5	2 0.2 5.1	2 0.4 5.0	2 0.3 5.0	2 0.2 5.0	2 0.2 5.2	2 0.2 4.9	2 0.2 4.1	17
18	3 0.2 2.5	3 0.3 2.1	3 0.4 2.0	3 0.4 2.5	3 0.4 2.4	3 0.6 2.0	3 0.4 2.3	3 0.5 2.2	3 0.2 2.5	3 0.3 1.7	3 0.4 2.2	2 0.4 2.2	18
19	3 0.4 2.8	.. ..	3 0.5 2.5	3 0.5 2.3	3 0.5 2.5	.. ..	3 0.7 2.0	3 0.6 2.5	3 0.4 2.3	.. ..	3 0.3 2.5	3 0.3 2.3	19
20	3 0.3 2.7	3 0.3 4.2	3 0.2 4.3	2 0.2 4.2	3 0.5 2.8	2 0.4 4.0	3 0.2 4.1	2 0.2 4.0	3 0.2 2.6	2 0.2 3.7	2 0.2 3.9	2 0.2 4.0	20
21	2 0.2 4.5	2 0.2 4.4	2 0.2 4.3	2 0.2 4.2	2 0.2 4.2	2 0.3 4.1	2 0.3 3.5	2 0.3 4.0	2 0.3 3.8	2 0.2 4.1	2 0.3 4.0	2 0.3 4.0	21
22	3 0.2 4.2	3 0.4 2.6	3 0.5 2.2	3 0.3 3.7	2 0.3 4.4	3 0.5 2.4	3 0.6 2.5	3 0.4 3.0	2 0.3 4.1	3 0.3 2.5	3 0.3 2.1	3 0.3 3.2	22
23	2 0.2 3.6	.. ..	2 0.4 3.8	2 0.3 4.3	2 0.4 4.0	.. ..	2 0.5 4.1	2 0.4 4.5	3 0.3 4.1	.. ..	2 0.3 4.0	2 0.3 4.5	23
24	2 0.3 4.0	2 0.3 4.2	2 0.3 4.2	2 0.3 4.5	2 0.5 3.9	2 0.5 4.3	2 0.6 4.0	2 0.5 4.5	2 0.3 4.2	2 0.3 4.0	2 0.4 4.1	2 0.4 4.1	24
25	3 0.3 4.6	3 0.4 3.8	.. ..	3 0.3 4.1	3 0.6 4.1	3 0.7 3.3	.. ..	3 0.4 3.6	3 0.3 4.0	3 0.4 3.2	.. ..	3 0.3 3.5	25
26	3 0.3 3.7	3 0.3 3.8	3 0.3 3.6	3 0.4 3.2	3 0.4 3.4	3 0.4 3.5	3 0.4 3.2	3 0.5 3.3	3 0.4 3.3	3 0.3 3.5	3 0.4 3.–	3 0.5 3.2	26
27	3 0.6 2.5	3 0.5 3.0	3 0.6 2.7	3 0.4 3.0	3 0.7 2.6	3 0.6 2.7	3 0.6 3.0	3 0.5 3.4	3 0.6 3.1	3 0.5 2.9	3 0.5 3.1	3 0.4 3.3	27
28	3 0.4 3.2	3 0.5 3.3	3 0.5 3.2	3 0.5 3.3	3 0.6 2.9	3 0.6 3.1	3 0.5 3.4	3 0.6 2.8	3 0.4 3.5	3 0.5 3.3	3 0.4 3.7	3 0.4 3.6	28
29	3 0.4 3.5	3 0.4 3.5	3 0.3 3.7	3 0.4 3.8	3 0.6 3.1	3 0.5 3.4	3 0.4 4.5	3 0.4 3.6	3 0.4 3.7	2 0.4 4.1	2 0.3 4.0	2 0.3 4.1	29
30	3 0.3 3.7	2 0.3 4.5	2 0.3 4.8	2 0.3 3.7	3 0.4 4.2	2 0.4 4.2	2 0.3 4.5	2 0.3 4.6	2 0.3 4.2	2 0.3 4.0	2 0.2 4.0	2 0.2 4.5	30

BIANCO LUNO A/S, KBH.

No. 74 July-Sept. 1958

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation : chalk

Instruments

Galitzin-Wilip. $N, E,$ and Z. $T_p = T_g = 12^1/_2$ sec, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 260\ \text{sec}^{-1}$ or V_{max} = abt. 1000.
Benioff. Z'. $T_p = 1$ sec, $T_g = {}^1/_4$ sec, V_{max} = abt. 30 000.
Wiechert 1000 kg. N and E. $T = 8^1/_2$ sec, $\nu = 6:1$, $\varrho = 0.3$ mm, $V_0 = 210$.
Wiechert 1300 kg. Z. $T = 6$ sec, $\nu = 4:1$, $\varrho = 0.3$ mm, $V_0 = 150$.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + indicates ground motion towards the north, towards the east, or upwards. – indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

Microseismic Readings

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated. All readings are due to the Galitzin instruments.

July			
1	*iP·Z*	$6^h04^m38^s$	+
	eS·E	14 08	
	L·E	29	
	$\Delta = 73^\circ$. Aleutian Islands.		
3	*eP·Z*	5 57 57	
	e·Z′	58 07	
	eSKS·N	6 08 22	
	i·E	08 37	
	$\Delta = 87^\circ$. Mascarene Islands.		
3	*iPKP1·Z′Z*	6 46 52	
	i·Z′Z	46 59	
	iPKP2·Z′Z	47 10	
	epPKP1·Z	48.5	
	epPKP2·Z	48 44	
	isPKP2·Z	49 26	
	iPP·ZN	50 44	
	$\Delta = 151^\circ$. $h = 400$ km. Kermadec Islands.		
4	*ePP·ZE*	18 51 40	
	eSKS·E	58 10	
	L·E	19 26	
	$\Delta = 98^\circ$. Philippine Islands.		
5	*iP·Z′*	1 30 18	
	Southeastern Asia?		
5	*e(P)·Z′*	2 11 04	perhaps a little earlier.
	e(S)·E	15.7	
	e(Lg)·ZE	18 02	per. 4^s.
	Caucasia.		
5	*eP·Z*	23 34 09	
	eS·NE	44 28	
	L·NE	24 05	
	$\Delta = 82^\circ$. Eastern Asia.		
6	*L·NE*	5 03	
6	*L·NE*	20 33	
7	*eP·Z*	5 27 47	
	eS·NE	37 18	
	$\Delta = 73^\circ$. Aleutian Islands.		
8	*iP·Z′*	5 03 42	+
	ePg·ZE	04 04	
	eS·E	04 32	
	eSg·E	05 05	
	i·ZE	05 22	
	$\Delta = 5^\circ$. Thüringer Wald, Germany.		

July			
8	*iPKP·Z*	$6^h26^m10^s$	+
	$\Delta = 145^\circ$. Tonga Islands.		
8	*ePP·Z*	23 06.8	
	eSS·NE	21.3	
	L·NE	23.7	
	$\Delta = 102^\circ$. Indian Ocean.		
10	*iP·Z*	6 26 30	+
	i·Z	26 33	5^s, $-25\,\mu$.
	iS·NE	35 08	14^s. N: $45\,\mu$, E: $50\,\mu$.
	L·NE	45.7	22^s. N: $450\,\mu$, E: $400\,\mu$.
	$\Delta = 65^\circ$. Alaska.		
10	*iSg·Z′*	15 25 03	
	$\Delta = 3^1/_2{}^\circ$. Southern Norway.		
10	*L·NE*	15 30	
11	*ePP·Z*	19 28 28	
	e(SKKS)·E	35 31	
	e(PS)·E	37.8	
	eSS·NE	43.4	
	L·NE	19.9	
	$\Delta = 103^\circ$. Northern Chile.		
12	*ePS·ZE*	1 17 08	
	eSS·N	23 08	
	L·E	42	
	$\Delta = 110^\circ$. Pacific Ocean.		
13	*L·N*	20 58.7	
	M·N	59.2	14^s, $3\,\mu$.
	F	21 01.5	
13	*L·NE*	23 42	
15	*eP·Z′*	8 04 08	
	eS·NE	08 06	
	L·NE	11	
	$\Delta = 22^\circ$. Crete.		
16	*L·NE*	13 59	
16	*L·NE*	18 06	
16	*L·NE*	19 55	
17	*iP·Z*	5 41 06	–
	eS·E	44 06	
	e·N	44 10	
	e·ZN	44 22	
	L·NE	45.5	
	M·NE	48	10^s. N: $15\,\mu$, E: $10\,\mu$.
	$\Delta = 17^\circ$. Greece.		

July			
17	12^h–24^h disturbances of very long period.		
18	*L·NE*	1^h15^m	
18	*eS·NE*	22 00 15	
	L·NE	22.3	
	$\Delta = 80^\circ$. Ryukyu Islands.		
19	*ePP·Z*	6 49 37	
	L·E	7 25	
	$\Delta = 113^\circ$. $h = 150$ km. New Guinea.		
19	*L·NE*	15 36	
19	*ePP·Z*	18 35 32	
	eSKS·E	41 54	
	ePS·E	44 32	
	e·E	45.2	
	L·E	19 09	
	M·E	19	20^s, 30μ.
	$\Delta = 105^\circ$. Moluccas.		
20	*eS·Z′*	19 32 47	dubious.
	L·NE	34.4	
	M·NE	35	16^s. N: 2μ, E: 2μ.
	$\Delta = 13^\circ$. Western France.		
21	*iP·Z′Z*	7 36 34	Z: 3^s, $+3\,\mu$.
	eS·NE	46 03	
	e·NE	46 59	
	L·NE	8 00	
	$\Delta = 73^\circ$. Kurile Islands.		
21	*iP·Z′Z*	14 48 49	Z: 4^s, $+2\,\mu$.
	eS·NE	58 13	
	L·NE	15 13	
	$\Delta = 73^\circ$. Aleutian Islands.		
23	*iP·Z*	10 39 52	4^s, $-2\,\mu$.
	iS·N	50 09	11^s, $-5\,\mu$.
	i·E	50 13	10^s, $-6\,\mu$.
	L·NE	11 10	
	M·NE	15	15^s. N: $18\,\mu$, E: $15\,\mu$.
	$\Delta = 82^\circ$. Japan.		
24	*(i)P·Z′*	13 19 34	in the time break.
	L·NE	51	
	$\Delta = 72^\circ$. Aleutian Islands.		
26	*eSKS·N*	6 38 27	
	ePS·N	40 45	
	eSS·NE	46 13	
	L·NE	59	
	$\Delta = 100^\circ$. South Indian Ocean.		

July			
26	*iP·Z′Z*	$17^h49^m39^s$	–
	i·Z	49 48	5^s, $-20\,\mu$.
	i·Z	50 12	+
	ipP·Z	51 55	
	esP·Z	53 02	
	iPP·Z	53 50	5^s, $-20\,\mu$.
	i·Z	54 10	5^s, $-20\,\mu$.
	iSKS·NE	59 15	
	iSKKS·NE	59 32	6^s. N: $10\,\mu$, E: $30\,\mu$.
	iS·NE	18 00 11	10^s. N: $25\,\mu$, E: $15\,\mu$.
	iPS·E	03 00	6^s, $35\,\mu$.
	isS·N	04 10	10^s, $15\,\mu$.
	ePKPPKP·Z′	14 42	
	i·Z′	15 04	
	$\Delta = 96^\circ$. $h = 650$ km. Peru-Bolivia border.		
27	*L·NE*	4 03	
27	*L·NE*	15 05	
27	*L·NE*	18 44	
28	*L·NE*	16 08	
28	*iPKP·Z′*	17 43 20	
	$\Delta = 143^\circ$. $h = 500$ km. Fiji Islands.		
29	*iP·Z′Z*	21 47 38	Z: –
	eS·NE	55 54	
	L·NE	22 06	
	$\Delta = 61^\circ$. Atlantic Ocean.		
30	*iP·Z′*	2 58 52	+
	eS·E	3 08 22	
	e·E	09 06	
	e·N	09 20	
	L·NE	25	
	$\Delta = 73^\circ$. Kurile Islands.		
30	*L·NE*	5 42	
31	*iP·Z′*	2 15 18	
	$\Delta = 73^\circ$. Aleutian Islands.		
August			
1	*ePKP·Z*	5 56 31	
	i·Z	56 36	–
	eSKP·Z	59 37	
	ePKS·N	6 00 15	
	epPKS·ZN	01 39	
	$\Delta = 140^\circ$. $h = 450$ km. Fiji Islands.		

August			
3	*ePKP·Z′Z*	$1^h25^m02^s$	–
	epPKP·Z′Z	27 13	
	e·N	38 25	
	e·E	46.7	
	Δ = 145°. *h* = 550 km. Fiji Islands.		
4	*ePP·ZE*	4 32 15	
	esPP·ZN	33 14	
	eSKS·E	38 04	
	esSKS·NE	39 16	
	i·E	42 26	
	Δ = 110°. *h* = 150 km. Banda Sea.		
4	*L·E*	6 40.5	
	L·ZN	40.8	
	M·ZN	41.3	
	F·ZNE	42	
6	*iPn·Z′*	17 17 27	
	e·Z′	17 32	
	ePg·Z′	17 47	
	eSn·NE	18 28	
	iSg·NE	18 51	
	iRg·NE	19 10	
	Δ = 5°. Southwestern Norway.		
6	*ePKP·Z′*	21 28.6	
	ePP·Z	31 38	
	iPKS·N	32 23	
	L·NE	22 16	
	Δ = 142°. Tonga Islands.		
8	*L·NE*	5 39.0	
8	*e·Z*	13 01 00	
	e·ZE	02 42	
	e·NE	06 10	
	e·NE	09.3	
8	*L·NE*	17 26	
8	*L·NE*	20 46	
9	*L·NE*	9 40	
9	*L·NE*	13 41	
10	*L·NE*	19 09	
11	*eSg·Z′*	16 09 42	
	Δ = 5°. Poland.		
11	*i·Z′*	16 23 17	
August			
11	*L·ZE*	19^h36^m	
11	*e·NE*	20 50.5	
	L·NE	21.3	
	Δ = 92°. Sumatra.		
12	*L·NE*	17 06	
12	*eP·Z*	19 39 07	
	ePP·Z	43 24	
	eSKS·E	49 49	
	eSKKS·NE	50 07	
	eSS·E	58 17	
	L·E	20 15	
	M·ZNE	31	20^s. *Z*: 20 μ, *N*: 15 μ, *E*: 25 μ.
	Δ = 103°. Molucca Passage.		
13	*L·NE*	4 43	
13	*iP·Z′*	7 41 18	
	e·Z′	41 25	
	ePP·NE	43 01	
	eS·NE	47 32	
	L·N	53	
	Δ = 42°. Afghanistan.		
13	*iPKP·Z′*	17 10 39	
	i·Z′	10 42	
	e·E	48.2	
	L·NE	18 00	
	Δ = 147°. *h* = 550 km. Fiji Islands.		
13	*eP·Z′Z*	20 24 36	*Z*: –.
	e·Z	25 15	
	iS·NE	34 08	*N*: +, *E*: +
	eScS·N	34 52	
	L·NE	48	
	Δ = 74°. Aleutian Islands.		
14	*eP·Z′*	11 33 28	
	iS·E	38 49	
	eSS·N	40 45	
	L·N	43.3	
	Δ = 33°. Iran.		
14	*iP·Z′Z*	15 06 42	*Z*: +
	e·N	12 32	
	eS·NE	16 08	
	i·NE	17 05	
	e·N	21 15	
	L·NE	31	
	M·NE	41	20^s. *N*: 15 μ, *E*: 10 μ.
	Δ = 73°. Aleutian Islands.		
14	*iP·Z′Z*	15 32 54	
	Δ = 33°. Iran.		

August			
14	*e(S)·NE*	$23^h41^m35^s$	
	e·NE	42 11	
	(L)·N	58	
15	*L·NE*	3 29	
15	*iP·Z′Z*	20 06 39	–
	ePP·NE	09 09	
	iS·NE	15 37	*N*: –, *E*: –
	iPS·N	15 46	
	iScS·NE	16 34	
	L·NE	28	
	M·E	32	30^s, 65 μ.
	M·ZN	38	25^s. *Z*: 35 μ, *N*: 55 μ.
	Δ = 68°. Kamchatka.		
15	*iP·Z′Z*	22 42 51	*Z′*: –, *Z*: +
	i·Z′Z	43 04	
	i·Z	43 35	
	i·Z	46 12	+
	iSKS·NE	53 14	*N*: 7^s, – 8 μ. *E*: 8^s, – 15 μ.
	e(S)·E	54 17	
	i·E	54 33	8^s, + 10 μ.
	i·N	54 39	7^s, – 7 μ.
	i(sS)·N	55 38	15^s, – 20 μ.
	e·E	58 05	
	L·NE	23 09	
	M·NE	22	25^s. *N*: 160 μ, *E*: 55 μ.
	Δ = 102°. *h* = 200 km. Celebes.		
16	*ePKP·Z*	11 33 34	
	e·N	34 16	
	e(PP)·N	37 25	
	Δ = 148°. Tonga Islands.		
16	*eP·Z′Z*	13 29 27	
	eS·NE	38 56	
	ePS·N	39 10	
	e·E	40 04	
	eSS·N	43.8	
	L·NE	54	
	Δ = 73°. Aleutian Islands.		
16	*e(S)·E*	17 21 22	
	L·NE	28	
16	*iP·Z′Z*	19 20 17	*Z*: 6^s, + 10 μ.
	e(S)·E	25 29	10^s, 7 μ.
	iS·N	25 33	8^s, – 10 μ.
	i·E	25 46	7^s, 40 μ.
	iSS·N	27 28	
	L·NE	31	
	M·ZNE	35	20^s. *Z*: 45 μ, *N*: 65 μ, *E*: 80 μ.
	Δ = 33°. Iran.		
August			
17	*L·NE*	3^h59^m	
17	*L·NE*	5 01	
17	*e·N*	9 30 20	
	L·NE	45	
	Δ = 74°. Aleutian Islands.		
17	*ePP·Z*	18 20 36	
	e·ZNE	21.1	
	ePS·Z	30.7	
	e·E	30 44	
	e·N	30 50	
	e·N	31 39	
	eSS·NE	37.2	
	eSSS·NE	41.3	
	L·NE	57	
	M·ZNE	19 11	20^s. *Z*: 10 μ, *N*: 15 μ, *E*: 10 μ.
	Δ = 116°. Bismarck Sea.		
17	*ePKP·Z*	21 31 08	
	ePP·Z	35 23	
	Δ = 158°. Kermadec Islands.		
18	*L·NE*	16 02	
18	*L·NE*	22 08	
18	*iP·Z′*	23	no minute marks
	eP·ZN	59 08	
	eS·N	24 03 16	
	Δ = 23°. Crete.		
19	*e(L)·ZNE*	16.3	
19	*eP·Z*	16 40 38	
	eS·N	49 37	
	L·NE	17.1	
	Δ = 68°. Kamchatka.		
19	*iPP·Z*	22 08 04	
	eSKS·N	13 43	
	(e)SKKS·NE	14 58	in the time break.
	ePS·ZNE	17 38	
	Δ = 115°. New Ireland.		
20	*ePKP·Z*	3 59 28	
	iPP·Z	4 02 05	–
	iPKS·NE	03 03	
	L·NE	4.8	
	Δ = 134°. New Hebrides.		
21	*ePKP·Z′Z*	21 18 12	
	epPKP·Z	19 12	
	ePKS·N	21 57	
	i·N	24 32	
	Δ = 142°. *h* = 250 km. Fiji Islands.		

August			
22	iP·Z'Z	$12^h51^m08^s$	Wiechert Z.
	e·N	51 17	Wiechert.
	(i)·Z'	51 24	in the time break.
	e·Z	51 32	Wiechert.
	Δ = 1°. Southern Baltic?		
26	L·NE	5 45	
26	e·Z'	10 01 26	
	i·Z'ZNE	01 34	
	Near shock.		
26	i·Z'	13 01 36	Seismic?
27	iP·Z'ZNE	15 20 58	Z: 6^s, −25 μ. Z': $\frac{1}{2}^s$.
	e·Z'	21 08	2^s.
	i·Z	21 12	
	iS·NE	24 33	9^s. N: + 20 μ, E: − 40 μ.
	iSS·NE	24 50	
	L·NE	28.0	
	M·NE	30	N: 14^s, 70 μ. E: 12^s, 50 μ.
	Δ = 20°. Ionian Sea.		
29	L·NE	13.6	
30	eP·Z	7 40 10	No Benioff record.
	eS·NE	43 42	
	L·NE	47	
	Δ = 20°. Ionian Sea.		
30	eSKS·N	19 01 13	
	ePS·NE	02 18	
	L·NE	24	
	Δ = 85°. Gulf of California.		
31	iP·Z	23 10 25	+
	e(PcP)·N	11 13	
	ePP·N	12 40	
	ePPP·Z	14.1	
	eS·N	18 41	
	eSS·N	22 42	
	L·N	30	
	Z' and E out of order.		
	Δ = 61°. Alaska.		
31	ePKP·Z	23 47 09	
	Δ = 150°. Kermadec Islands.		
September.			
1	e·Z	1 17.0	
2	iP·ZN	1 17 48	Z: −
	e·Z	18 17	
	eS·N	21 22	
	i·N	21 56	
	M·ZN	26	10^s, 5 μ.
	Δ = 19°. Ionian Sea.		

September			
2	eP·Z	$20^h19^m48^s$	
	L·Z	52	
	No H-records. Δ = 86°. Mexico.		
3	L·Z	1 54	
	No H-records.		
3	L·Z	3 12	
	No H-records.		
3	iP·Z'Z	3 54 40	+
	No H-records. Δ = 61°. Atlantic Ocean.		
3	eP·Z'	8 21 59	Z in the paper shift.
	e·Z'	22 06	
	ePP·Z'	24 47	
	L·N	48	
	Δ = 75°. Japan.		
4	iP·Z'Z	0 07 46	+
	eS·N	11 44	
	L·N	15.6	
	Δ = 22°. Dodecanese Islands.		
4	e·Z'	13 01 45	per. abt. 0.4 sec.
	i·Z'	02 50	per. abt. 1.0 sec.
	e·Z'	03 44	per. abt. 1.5 sec.
	e·Z'	04 00	per. abt. 0.3 sec.
	Near shock.		
4	i·Z'	16 33 09	
4	ePP·Z'ZE	22 10 41	Z: +
	e·Z	14 43	
	e·N	18 36	
	e·ZNE	21.7	
	eSSS·NE	30.6	
	L·NE	45	
	M·ZNE	56	20^s. Z: 25 μ, N: 20 μ, E: 20 μ.
	Δ = 113°. Chile-Argentina border.		
6	i·Z'	17 32 13	per. abt. 0.4 sec.
	e·Z'	34 13	per. abt. 1.5 sec.
	Conf. the quake Sept 4, 13^h. Near shock.		
8	iP·Z'Z	5 36 39	+
	i·Z	36 42	−
	i(pP)·Z	36 55	−
	eS·NE	45 38	
	ePS·ZNE	46 04	
	eSKS·E	46 33	
	L·NE	6 00	
	Δ = 68°. Deeper than normal. Kamchatka.		
9	iP·Z'	11 43 36	+
	L·NE	12 09	
	Δ = 73°. Kurile Islands.		

September			
9	L·NE	22^h59^m	
10	L·NE	4 07	
11	L·NE	7 31	
11	L·NE	18 49	
12	L·NE	6 42	
14	iP·Z'	14 31 06	+
	e·Z'	31 12	
	iS·NE	38 43	
	eScS·E	40 55	
	eSS·NE	42 35	
	L·NE	50	
	iLg·NE	51 08	6^s. N: 15 μ, E: 20 μ.
	M·NE	52	10^s. N: 25 μ, E: 20 μ.
	Δ = 54°. Siberia.		
15	eP·Z'	19 58 16	
	i·Z'	58 18	−
	epP·Z	20 00 40	
	iPP·Z	02 32	
	ipPP·Z	04 39	
	iSKS·NE	07 54	N: +, E: +
	iS·NE	08 46	
	iSP·E	10 16	
	iSS·N	15 52	
	iSSS·N	20 19	
	Δ = 98°. h = 600 km. Celebes Sea.		
16	i·Z'	12 58 53	
	i·Z'	58 57	
16	L·NE	16 44	
17	L·NE	13 06	
18	eP·Z	14 52 23	doubtful.
	eS·N	15 01 11	
	L·NE	11	
	Δ = 65°. Mid-Atlantic Ocean.		
18	eS·E	21 07 13	
	eScS·N	10 32	
	i·E	10 43	
	Δ = 43°. h = 150 km. Hindu Kush.		
20	L·ZE	11 04	
20	L·NE	18 08	

September			
22	iPKP1·Z'Z	$19^h25^m39^s$	Z: +
	i·Z'Z	25 52	−
	ePKP2·Z'	26 10	
	ePP·E	30 08	
	eSKKS·NE	36 35	
	ePPP2·N	38 40	
	ePPS·NE	43.1	
	eSS·NE	49 42	
	L·NE	20 16	
	Δ = 157°. Kermadec Islands.		
24	eP·Z'	3 54 54	
	e·Z'Z	55 18	
	e·N	59 39	
	eS·NE	4 03 40	
	e·N	04 24	
	L·NE	15	
	Δ = 66°. Gulf of Alaska.		
25	eP·Z'Z	7 30 28	
	iZ	30 33	
	eS·NE	38 56	
	iPS·NE	39 05	
	i·E	39 18	
	i·N	39 21	
	L·NE	48	
	M·NE	51	25^s. N: 35 μ, E: 50 μ.
	Δ = 63°. Atlantic Ocean.		
27	L·NE	13 18	
29	L·NE	14 57	
30	L·NE	8 05.0	
	M·NE	07.1	10^s. N: 4 μ, E: 3 μ.
	F	07.8	
	No Z-record.		
30	e·Z'	8 49 18	Strong microseisms.
	e(S*)·E	49 41	
	e(Sg)·N	50 09	
	i·E	50 16	
	e(Rg)·NE	50.4	
	Δ = 8°. Upper Inn Valley.		
30	L·ZNE	10 10.0	
	M·ZNE	12.8	10^s. Z: 2 μ, N: 3 μ, E: 3 μ.
	F	14.8	

November 1958. HENRY JENSEN

Microseisms. København

1958 July	Z				N				E				1958 July
	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	
1	2 0.3 4.0	2 0.2 3.5	3 0.4 4.0	3 0.3 4.0	2 0.2 4.0	2 0.2 4.0	3 0.2 4.0	3 0.3 2.7	2 0.3 3.5	2 0.3 4.0	.. ..	.. ..	1
2	3 0.3 3.–	3 0.3 3.–	3 0.2 3.–	3 0.2 2.1	3 0.4 2.9	3 0.4 2.9	3 0.5 2.2	3 0.4 2.5	.. ..	.. ..	3 0.2 2.5	3 0.3 2.3	2
3	3 0.3 2.2	.. ..	3 0.2 2.5	3 0.2 3.3	3 0.4 2.0	.. ..	3 0.2 4.5	3 0.2 4.7	3 0.3 2.0	.. ..	3 0.2 3.4	3 0.2 4.6	3
4	3 0.3 3.3	2 0.2 3.6	2 0.2 4.4	2 0.2 4.6	2 0.2 3.5	2 0.2 4.0	2 0.2 3.7	2 0.2 4.0	2 0.2 4.5	2 0.2 4.6	2 0.2 4.0	2 0.2 4.0	4
5	2 0.2 4.2	2 0.2 4.0	2 0.3 3.6	2 0.2 4.–	2 0.2 4.3	2 0.2 4.5	2 0.2 3.5	2 0.2 3.2	2 0.1 3.8	2 0.1 4.0	2 0.1 3.5	2 0.1 3.5	5
6	3 0.2 3.6	3 0.3 2.0	3 0.3 2.7	3 0.2 2.8	3 0.2 3.5	3 0.3 2.1	3 0.5 2.1	3 0.5 2.5	3 0.2 4.5	3 0.2 2.2	3 0.2 2.5	3 0.3 2.4	6
7	3 0.3 2.4	3 0.5 2.2	3 0.4 2.6	3 0.4 2.3	3 0.4 2.6	3 0.5 2.3	3 0.5 2.5	3 0.4 2.6	3 0.2 2.6	3 0.4 2.4	3 0.2 2.5	3 0.3 2.2	7
8	3 0.4 2.3	3 0.4 2.8	3 0.4 3.4	3 0.3 3.6	3 0.4 2.2	3 0.4 2.8	3 0.4 4.0	3 0.4 3.4	3 0.3 2.2	3 0.3 2.4	3 0.4 3.8	3 0.4 3.7	8
9	.. ..	3 0.4 3.4	.. ..	3 0.4 3.7	.. ..	3 0.4 3.5	.. ..	3 0.4 3.3	.. ..	3 0.6 3.0	.. ..	3 0.6 3.5	9
10	3 0.6 3.5	3 0.8 4.2	3 1.0 4.0	3 0.9 3.8	3 0.4 4.0	3 0.6 4.5	3 0.8 4.2	3 0.7 3.8	3 0.5 3.8	3 0.6 4.5	3 0.7 4.3	3 0.8 4.2	10
11	3 0.8 4.0	3 0.6 4.0	3 0.6 4.–	3 0.5 4.2	3 0.7 4.2	3 0.4 3.7	2 0.7 3.7	2 0.5 4.0	3 0.6 4.3	3 0.6 4.5	2 0.5 4.0	2 0.6 3.8	11
12	3 0.4 3.8	3 0.4 3.8	3 0.4 3.6	3 0.3 4.5	2 0.5 4.0	2 0.4 3.7	2 0.3 3.3	2 0.3 3.3	2 0.5 4.0	2 0.4 4.–	2 0.4 3.7	2 0.4 3.7	12
13	2 0.4 3.7	2 0.4 3.1	2 0.4 3.5	2 0.4 3.5	2 0.3 3.8	2 0.3 3.3	2 0.3 3.2	2 0.2 3.4	2 0.3 3.5	2 0.3 3.5	2 0.2 3.6	2 0.4 3.6	13
14	2 0.6 3.4	3 0.7 3.6	3 1.4 3.1	1 1.7 3.8	3 0.4 4.0	3 0.6 3.5	3 0.8 2.7	1 1.0 3.6	3 0.5 4.0	3 0.6 3.9	3 0.8 3.6	1 1.0 3.7	14
15	1 1.4 3.5	2 1.0 3.3	2 0.7 2.8	2 0.6 3.4	1 0.8 3.6	2 0.7 3.2	3 0.5 2.8	2 0.4 3.2	1 1.1 4.1	2 0.7 3.5	3 0.3 2.8	2 0.4 3.2	15
16	2 0.5 3.3	2 0.4 3.8	2 0.4 3.4	3 0.5 2.8	2 0.3 3.4	2 0.2 3.4	3 0.4 2.8	3 0.4 2.4	2 0.4 3.1	2 0.2 3.4	3 0.3 2.6	3 0.2 2.9	16
17	3 0.4 2.8	3 0.4 3.1	3 1.0 2.8	1 1.6 3.0	3 0.3 3.0	.. ..	3 0.8 2.7	3 0.8 2.5	3 0.3 2.4	.. ..	3 0.6 2.5	3 0.8 2.8	17
18	1 1.6 3.1	3 1.3 3.0	3 1.1 2.4	3 1.0 3.0	3 0.9 2.7	3 0.8 2.6	3 0.4 2.5	3 0.4 2.7	3 0.8 2.8	3 0.8 2.6	3 0.6 2.6	3 0.8 2.5	18
19	3 0.7 3.1	2 0.4 2.8	2 0.6 2.3	2 0.4 2.8	2 0.4 2.6	2 0.3 2.2	2 0.3 2.5	3 0.2 3.0	2 0.6 2.7	2 0.4 2.5	3 0.4 2.4	3 0.2 2.5	19
20	2 0.4 2.6	2 0.4 3.0	2 0.2 3.5	2 0.2 3.5	2 0.2 3.5	2 0.2 3.5	2 0.2 3.0	2 0.1 3.5	2 0.2 3.5	2 0.2 3.5	2 0.1 3.5	2 0.1 3.5	20
21	2 0.2 3.5	3 0.3 3.3	2 0.3 3.3	2 0.4 3.4	2 0.1 3.4	2 0.1 2.9	3 0.3 2.3	3 0.2 2.5	2 0.2 3.3	2 0.3 2.7	3 0.2 2.7	3 0.2 2.8	21
22	3 0.4 2.3	3 0.4 2.5	2 0.4 3.2	2 0.3 3.5	3 0.3 2.2	3 0.3 2.3	3 0.2 3.–	3 0.2 3.2	3 0.3 2.3	3 0.3 2.2	3 0.2 4.0	3 0.2 4.3	22
23	2 0.3 3.5	2 0.4 3.8	3 0.4 3.5	2 0.3 3.3	3 0.2 3.7	3 0.2 3.7	.. ..	3 0.2 4.0	3 0.2 3.6	3 0.2 3.7	.. ..	3 0.2 4.0	23
24	2 0.4 3.4	2 0.4 3.7	2 0.4 3.0	2 0.4 3.4	3 0.2 3.5	3 0.3 3.3	3 0.4 3.3	3 0.4 3.5	3 0.4 3.7	3 0.4 3.6	3 0.3 3.7	3 0.4 3.6	24
25	3 0.6 3.0	3 0.7 3.0	3 0.6 2.7	3 0.8 2.5	3 0.4 2.9	3 0.5 2.5	3 0.4 2.6	3 0.5 2.5	3 0.4 2.7	3 0.5 2.3	3 0.5 2.4	3 0.6 2.1	25
26	3 0.7 2.8	3 0.7 3.1	3 0.7 3.4	.. ..	3 0.4 3.0	1 0.4 3.8	2 0.6 3.8	.. ..	3 0.4 2.8	3 0.4 3.5	2 0.5 3.2	.. ..	26
27	1 0.9 3.5	3 0.9 3.2	3 0.8 3.2	3 0.7 3.2	1 0.6 3.7	1 0.5 3.4	3 0.5 3.2	3 0.5 3.3	1 0.6 3.5	1 0.8 3.0	3 0.4 3.2	3 0.4 3.0	27
28	2 0.4 3.3	3 0.3 3.4	2 0.3 3.1	2 0.4 3.3	2 0.3 3.2	2 0.2 3.5	2 0.2 3.3	2 0.3 3.0	2 0.4 3.0	2 0.2 3.5	2 0.2 3.5	2 0.3 3.5	28
29	3 0.4 3.5	1 0.7 3.5	1 0.8 3.5	1 0.7 3.8	2 0.3 3.5	3 0.4 3.7	3 0.4 3.6	3 0.5 3.8	2 0.4 3.4	3 0.6 3.3	2 0.6 4.0	3 0.6 4.0	29
30	3 0.8 3.5	3 0.7 3.3	2 0.4 3.5	2 0.4 3.4	3 0.4 3.7	3 0.4 3.6	3 0.3 3.5	3 0.4 3.3	3 0.4 4.0	3 0.5 3.6	2 0.3 3.4	2 0.3 3.2	30
31	2 0.4 3.3	3 0.4 3.4	2 0.4 3.6	2 0.4 3.5	2 0.4 3.3	2 0.4 3.2	2 0.3 3.5	2 0.4 3.3	2 0.2 3.6	2 0.3 3.3	2 0.4 3.6	2 0.4 3.6	31

Microseisms. København

1958 Aug.	Z				N				E				1958 Aug.
	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	
1	2 0.3 3.5	2 0.3 3.3	2 0.2 3.7	2 0.3 3.8	2 0.4 3.6	2 0.4 3.8	2 0.3 3.8	2 0.3 3.7	2 0.3 3.6	2 0.4 4.0	2 0.2 4.0	2 0.2 3.8	1
2	2 0.3 3.0	1 0.9 2.5	3 0.4 2.6	3 0.4 2.7	2 0.2 3.5	1 0.6 2.5	3 0.4 2.2	3 0.3 2.4	3 0.2 3.0	1 0.8 2.5	3 0.4 2.3	2 0.3 2.8	2
3	1 0.6 3.4	1 0.6 3.5	3 0.6 2.5	3 0.5 2.5	3 0.4 3.5	3 0.6 3.0	3 0.6 2.6	3 0.6 2.6	3 0.4 3.4	3 0.5 3.8	3 0.5 2.9	3 0.4 2.7	3
4	3 0.4 2.8	.. ..	3 0.5 3.4	3 0.4 3.3	3 0.4 3.0	3 0.4 3.0	3 0.4 3.8	3 0.4 3.8	3 0.4 2.8	3 0.4 3.2	3 0.4 3.7	3 0.4 3.8	4
5	3 0.4 3.3	3 0.5 3.7	3 0.7 3.3	3 0.7 3.5	3 0.5 3.5	3 0.6 3.4	3 0.8 3.7	3 0.8 4.0	3 0.5 3.7	3 0.5 3.8	3 0.8 4.0	3 0.7 3.7	5
6	3 1.0 3.3	1 1.0 3.5	1 1.0 4.2	1 0.8 4.2	3 0.9 4.0	1 1.0 4.2	1 0.8 4.4	1 0.8 4.2	1 1.0 4.0	1 1.1 4.5	1 0.9 4.4	1 0.7 4.2	6
7	2 0.5 3.9	2 0.4 3.8	2 0.4 3.8	2 0.4 3.7	2 0.5 4.0	2 0.5 3.7	2 0.4 3.8	2 0.4 3.8	2 0.5 4.5	2 0.5 3.8	2 0.4 3.8	2 0.4 3.9	7
8	2 0.3 3.3	2 0.3 3.5	2 0.2 3.5	2 0.2 3.7	2 0.3 3.5	2 0.3 3.6	2 0.2 3.7	2 0.2 3.8	2 0.4 4.0	2 0.3 3.8	2 0.2 3.8	2 0.2 3.7	8
9	2 0.2 4.0	3 0.2 4.1	3 0.2 2.9	3 0.2 3.0	2 0.2 4.0	3 0.2 3.8	3 0.2 3.2	3 0.2 3.2	2 0.2 4.0	3 0.2 3.7	3 0.2 3.3	3 0.2 3.3	9
10	3 0.2 3.5	3 0.2 3.3	3 0.2 3.5	3 0.2 3.8	3 0.2 3.5	3 0.2 3.5	3 0.2 3.7	3 0.2 3.3	3 0.2 3.5	3 0.2 3.8	3 0.2 3.6	3 0.2 3.6	10
11	2 0.2 3.8	2 0.2 3.5	2 0.3 3.5	2 0.2 3.5	2 0.2 3.7	2 0.2 3.6	2 0.3 3.7	2 0.2 3.6	2 0.2 3.6	2 0.2 4.0	2 0.2 4.0	2 0.2 3.6	11
12	3 0.3 3.3	3 0.3 3.0	3 0.5 2.3	3 0.5 2.3	3 0.3 2.5	3 0.2 2.7	3 0.5 2.2	3 0.4 2.3	3 0.2 3.5	3 0.2 2.5	3 0.3 2.0	3 0.3 2.2	12
13	3 0.4 2.9	2 0.3 3.3	2 0.3 3.4	2 0.3 3.3	3 0.4 2.8	2 0.4 3.0	2 0.2 3.1	2 0.2 3.0	3 0.3 3.0	3 0.2 3.7	2 0.2 4.0	2 0.2 3.6	13
14	2 0.2 4.0	2 0.2 4.0	.. ..	3 0.4 3.2	2 0.3 3.3	2 0.3 3.2	.. ..	3 0.4 3.0	2 0.2 3.5	2 0.2 3.6	.. ..	3 0.3 3.0	14
15	3 0.4 3.0	3 0.4 3.0	3 0.4 2.8	3 0.4 2.7	3 0.3 3.1	3 0.5 2.4	3 0.5 2.2	3 0.4 2.5	3 0.3 3.2	3 0.3 2.5	3 0.2 2.5	3 0.2 2.5	15
16	.. ..	3 0.2 3.5	3 0.4 2.7	3 0.3 2.8	.. ..	3 0.4 1.8	.. ..	3 0.3 2.2	.. ..	3 0.2 2.7	.. ..	3 0.2 2.6	16
17	3 0.3 2.7	3 0.3 3.0	3 0.3 2.9	3 0.3 3.2	3 0.2 2.6	3 0.2 2.7	3 0.4 2.9	3 0.4 3.0	3 0.2 2.8	3 0.2 2.7	3 0.2 3.0	3 0.2 2.8	17
18	3 0.3 3.2	2 0.2 3.8	2 0.2 3.9	2 0.2 3.4	3 0.2 3.5	2 0.3 3.3	2 0.2 3.8	2 0.2 3.5	3 0.2 3.2	3 0.2 3.2	2 0.2 3.9	2 0.2 3.9	18
19	2 0.2 4.0	2 0.2 3.6	2 0.3 3.0	3 0.4 2.5	3 0.2 3.5	3 0.2 2.8	3 0.3 3.1	3 0.3 2.3	3 0.2 4.0	3 0.2 3.7	3 0.2 3.4	3 0.3 2.7	19
20	3 0.5 2.3	3 0.5 2.5	.. ..	.. ..	3 0.4 2.3	3 0.4 2.7	.. ..	.. ..	3 0.3 2.8	3 0.3 2.5	.. ..	.. ..	20
21	.. ..	.. ..	2 0.3 3.2	2 0.3 3.2	.. ..	.. ..	2 0.2 3.5	2 0.2 3.5	.. ..	.. ..	2 0.3 3.2	3 0.4 3.0	21
22	2 0.4 3.0	1 0.4 2.9	3 0.5 2.8	3 0.4 2.9	3 0.4 3.0	1 0.4 3.0	3 0.5 2.9	3 0.4 2.7	3 0.3 3.2	3 0.4 3.0	3 0.4 3.0	3 0.4 2.8	22
23	3 0.4 3.2	3 0.4 3.3	3 0.6 2.7	2 0.6 2.8	3 0.3 2.7	3 0.4 2.8	3 0.6 2.2	2 0.5 2.6	3 0.4 2.5	2 0.4 3.0	3 0.4 2.4	3 0.5 2.7	23
24	2 0.4 3.0	2 0.5 3.0	2 0.5 3.0	2 0.5 3.0	2 0.5 2.7	2 0.5 2.5	.. ..	.. ..	2 0.5 2.7	2 0.4 3.0	3 0.5 2.5	3 0.4 2.6	24
25	2 0.4 2.8	2 0.4 3.2	2 0.3 3.1	2 0.3 3.2	.. ..	.. ..	3 0.4 2.7	3 0.3 3.0	2 0.4 2.5	2 0.4 2.5	2 0.2 2.9	2 0.2 3.5	25
26	2 0.4 3.3	2 0.3 3.3	2 0.4 3.3	2 0.3 3.6	3 0.3 3.0	3 0.2 3.4	3 0.4 3.5	3 0.6 2.7	2 0.2 3.1	2 0.2 3.3	3 0.2 3.7	2 0.2 3.2	26
27	3 0.4 2.8	3 0.4 3.0	3 0.4 3.8	2 0.4 3.8	3 0.6 2.5	2 0.6 3.1	2 0.4 3.6	2 0.4 4.0	3 0.3 3.2	3 0.3 3.5	2 0.4 4.0	2 0.4 4.2	27
28	2 0.4 4.0	2 0.4 4.0	1 0.4 4.0	1 0.5 4.0	2 0.4 4.0	2 0.5 3.8	2 0.6 4.0	2 0.6 4.0	2 0.4 4.0	2 0.4 4.0	2 0.4 4.0	2 0.4 3.7	28
29	3 0.4 3.4	3 0.4 3.3	3 0.5 2.8	3 0.5 2.6	3 0.7 3.2	3 0.6 3.0	3 0.7 2.8	3 0.6 2.7	3 0.4 3.5	3 0.4 3.4	3 0.4 3.0	3 0.4 2.6	29
30	3 0.5 2.5	3 0.5 2.4	3 0.4 2.7	3 0.3 3.2	3 0.5 2.3	3 0.5 2.6	3 0.3 2.8	3 0.3 3.2	3 0.3 2.8	3 0.3 2.8	.. ..	.. ..	30
31	3 0.3 2.6	3 0.4 2.6	3 0.4 2.8	3 0.5 2.7	3 0.3 3.0	3 0.2 3.0	3 0.2 2.8	3 0.2 2.6	.. ..	.. ..	.. ..	.. ..	31

Microseisms. København

1958	Z				N				E				1958
Sept.	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	0^h	6^h	12^h	18^h	Sept.
1	3 0.5 3.0	3 0.5 3.1	3 0.5 2.7	3 0.4 3.1	.. ..	3 0.2 3.1	3 0.3 3.4	3 0.3 3.5	.. ..	.. ..	.. ..	.. ..	1
2	3 0.4 3.3	3 0.4 3.6	3 0.3 3.3	3 0.3 3.3	3 0.3 3.4	3 0.2 3.7	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	2
3	3 0.4 3.0	3 0.4 3.5	3 0.2 4.2	2 0.2 3.7	.. ..	.. ..	3 0.1 3.9	2 0.2 4.0	.. ..	.. ..	.. ..	.. ..	3
4	2 0.2 4.0	2 0.2 4.3	2 0.2 3.7	2 0.2 4.0	2 0.2 4.1	2 0.1 4.3	2 0.1 3.9	2 0.1 3.8	.. ..	.. ..	2 0.1 4.0	2 0.1 4.0	4
5	.. ..	2 0.2 3.8	2 0.2 4.0	2 0.2 3.8	.. ..	2 0.1 4.0	2 0.2 4.0	2 0.2 3.7	.. ..	2 0.2 3.9	2 0.2 4.1	2 0.2 4.2	5
6	2 0.2 3.7	2 0.3 4.0	2 0.2 4.0	2 0.2 4.0	2 0.1 3.7	2 0.2 3.6	2 0.1 4.0	2 0.1 3.5	2 0.2 4.3	2 0.2 4.1	2 0.2 3.3	2 0.2 3.6	6
7	2 0.2 3.7	2 0.2 4.0	2 0.2 4.2	3 0.6 5.0	2 0.2 3.7	2 0.2 4.0	2 0.3 4.1	3 0.6 4.8	2 0.2 3.8	2 0.2 3.8	2 0.2 3.9	3 0.7 4.8	7
8	3 0.6 4.4	.. ..	3 0.8 5.2	3 0.8 5.0	3 0.6 4.8	.. ..	3 0.7 4.5	3 0.7 4.4	3 0.8 5.0	.. ..	3 0.7 4.8	3 0.7 4.5	8
9	3 0.8 4.1	3 0.8 4.3	3 0.6 4.5	3 0.5 3.8	3 0.8 4.7	3 0.4 4.6	3 0.3 4.6	3 0.3 3.9	3 0.6 4.6	3 0.5 4.5	3 0.4 4.2	3 0.4 3.8	9
10	2 0.4 3.7	2 0.4 3.4	2 0.4 3.2	2 0.4 3.8	2 0.2 3.6	2 0.3 3.3	2 0.2 3.7	2 0.2 3.7	2 0.3 3.9	2 0.3 3.6	2 0.3 3.8	2 0.2 3.5	10
11	3 0.4 3.5	3 0.4 3.1	3 0.7 3.8	3 0.7 3.6	3 0.2 3.6	3 0.3 3.3	3 0.4 3.4	3 0.4 3.6	2 0.3 4.0	2 0.3 3.6	3 0.5 3.6	3 0.5 4.0	11
12	3 0.6 3.8	3 0.5 3.6	2 0.4 3.4	2 0.5 3.8	3 0.4 3.8	3 0.3 3.9	2 0.2 3.5	2 0.2 3.5	3 0.5 4.1	3 0.4 3.7	2 0.4 3.6	2 0.3 3.7	12
13	3 0.4 4.1	3 0.6 4.2	3 0.4 4.5	3 0.4 4.2	3 0.3 4.0	3 0.4 4.0	3 0.5 3.8	3 0.6 4.2	3 0.4 4.1	3 0.4 4.3	3 0.4 4.1	3 0.5 4.2	13
14	3 0.7 4.2	3 0.7 4.1	3 1.1 4.2	1 1.2 4.5	3 0.6 4.3	3 0.9 4.0	1 1.2 4.6	1 1.4 4.7	3 0.6 4.6	3 0.8 4.7	3 0.9 4.3	1 1.4 5.0	14
15	1 1.3 4.5	1 1.2 4.5	3 1.0 3.9	3 0.8 4.3	1 1.4 4.6	1 1.3 4.6	1 1.0 4.5	1 1.1 4.1	1 1.6 4.8	1 1.3 4.4	1 1.3 4.2	1 0.9 4.6	15
16	3 0.8 4.0	3 0.6 3.6	3 0.4 3.4	3 0.4 3.0	3 0.8 4.1	3 0.5 4.2	3 0.4 3.9	3 0.4 3.3	3 0.7 4.2	3 0.6 4.1	3 0.4 3.5	3 0.4 3.5	16
17	3 0.4 3.1	3 0.5 3.1	3 0.4 3.3	3 0.4 3.5	3 0.4 3.0	3 0.5 3.0	3 0.5 3.2	3 0.5 3.9	3 0.3 3.2	3 0.4 3.2	3 0.4 3.4	3 0.4 3.6	17
18	3 0.5 3.4	3 0.4 3.5	3 0.6 3.6	3 0.6 4.2	3 0.4 3.5	3 0.7 3.5	3 0.7 3.2	3 0.7 3.3	3 0.4 3.6	3 0.4 3.8	3 0.5 3.6	3 0.5 4.4	18
19	3 0.7 4.0	3 0.7 4.0	3 0.8 4.1	3 0.5 4.3	3 0.7 3.7	3 0.6 3.5	3 0.7 4.2	3 0.6 4.7	3 0.8 3.8	3 0.7 4.2	3 0.5 4.5	3 0.7 4.7	19
20	3 0.7 4.5	3 0.9 3.8	3 1.0 3.8	3 1.1 3.0	3 0.9 4.1	3 0.9 3.8	3 1.0 4.0	3 1.0 3.0	3 0.9 4.2	3 0.8 4.0	3 0.9 3.7	3 0.8 3.6	20
21	3 0.8 3.0	3 0.5 3.5	3 0.4 3.6	3 0.5 3.4	3 0.8 3.0	3 0.7 3.5	.. ..	.. ..	3 0.7 3.8	3 0.7 3.0	3 0.4 3.8	3 0.4 3.9	21
22	3 0.4 3.7	3 0.4 3.0	3 0.3 2.8	3 0.3 3.3	.. ..	.. ..	3 0.3 3.2	3 0.3 3.6	3 0.5 3.7	3 0.4 3.5	3 0.2 3.0	3 0.3 3.5	22
23	2 0.3 3.3	2 0.2 3.5	2 0.2 3.7	2 0.2 3.6	2 0.3 3.8	2 0.3 4.0	2 0.3 3.5	2 0.3 3.5	2 0.2 4.0	2 0.2 4.0	2 0.3 3.5	2 0.2 3.4	23
24	2 0.2 3.2	3 0.3 3.0	3 0.4 3.0	3 0.8 3.0	2 0.2 3.2	3 0.2 3.6	3 0.4 2.8	3 0.9 2.7	3 0.2 3.5	3 0.2 3.4	3 0.4 3.5	3 0.8 3.1	24
25	3 0.7 3.8	1 0.8 3.8	1 1.2 4.1	1 1.0 4.2	3 0.8 3.9	1 1.0 3.8	1 1.1 4.1	1 1.0 4.0	3 0.9 3.8	1 0.9 3.9	1 1.2 4.2	1 0.9 4.5	25
26	1 1.0 4.0	3 0.8 3.7	3 0.7 3.0	3 0.8 3.0	1 1.0 3.9	3 0.8 3.5	3 0.6 3.4	3 0.7 3.4	1 1.1 4.3	3 0.6 4.3	3 0.8 3.1	3 0.7 3.5	26
27	3 0.6 2.9	2 0.4 3.0	3 0.3 3.3	3 0.4 3.7	3 0.5 3.1	2 0.5 3.0	3 0.4 3.1	3 0.3 3.2	3 0.5 3.0	2 0.4 3.0	3 0.3 3.1	3 0.3 3.4	27
28	2 0.3 5.5	2 0.3 3.5	2 0.3 4.0	.. ..	2 0.2 3.5	2 0.3 3.7	2 0.3 3.9	2 0.3 4.0	2 0.3 3.5	2 0.3 3.5	2 0.3 3.8	2 0.4 3.6	28
29	.. ..	.. ..	.. ..	.. ..	3 0.4 3.5	3 0.5 4.0	3 0.7 3.8	3 0.6 3.8	3 0.4 3.7	3 0.6 4.0	3 0.5 3.6	3 0.7 3.4	29
30	.. ..	.. ..	3 1.0 3.5	.. ..	3 0.8 3.5	3 0.8 3.6	3 0.9 3.5	3 1.0 4.0	3 0.8 3.7	3 0.9 3.5	3 0.8 3.7	3 0.8 4.3	30

BIANCO LUNO A/S, KBH.

No. 75

Oct.—Dec. 1958

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41' \text{ N.}$ $\lambda = 12°26' \text{ E.}$ $h = 13 \text{ m.}$

Lithologic foundation: chalk

Instruments

Galitzin-Wilip. N, E, and Z. $T_p = T_g = 12^1/_2$ sec, $\mu^2 = 0$, $\frac{Ak}{\pi l} = 260 \text{ sec}^{-1}$ or $V_{\max} = \text{abt. } 1000$.

Benioff. Z'. $T_p = 1$ sec, $T_g = {}^1/_4$ sec, $V_{\max} = \text{abt. } 30\,000$.

Wiechert 1000 kg. N and E. $T = 8^1/_2$ sec, $\nu = 6:1$, $\varrho = 0.3$ mm, $V_0 = 210$.

Wiechert 1300 kg. Z. $T = 6$ sec, $\nu = 4:1$, $\varrho = 0.3$ mm, $V_0 = 150$.

Seismological Readings

Phases are indicated by the symbols used in ISS. Times are given in GMT. Positions of epicenters are most often due to USCGS. The periods given are periods of full oscillations. The amplitudes are single amplitudes of the ground in microns. + indicates ground motion towards the north, towards the east, or upwards. – indicates the opposite direction. Unless otherwise stated, the periods and amplitudes are due to readings on the Galitzin instruments.

Microseismic Readings

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated. All readings are due to the Galitzin instruments.

October

1	*L·NE*	10^h49^m		
2	*M·ZNE*	8 18.2		10^s. Z: $2\,\mu$, N: $2\,\mu$, E: $1\,\mu$.
	F	19.5		
2	*e·Z′*	22 24 54		
	e·Z′	24 59		
4	*L·NE*	12 22		
6	*iPKP2·Z′*	1 07 13	+	
	i·Z′	07 18		
	$\Delta = 155°$. Kermadec Islands.			
6	*iP·Z′*	9 36 06	−	
	L·NE	49		
	$\Delta = 34°$. Iran-Turkmen border.			
6	*L·NE*	19 31		
7	*ePP·Z*	12 52 50		
	eSKKS·NE	13 00 17		
	ePS·ZE	03.0		
	eSS·NE	09.3		
	L·NE	27		
	$\Delta = 120°$. New Britain.			
7	*e·Z′*	13 13 05		
9	*ePS·ZN*	11 49 55		
	eSS·NE	56.2		
	eSSS·N	12 00.3		
	L·NE	17		
	$\Delta = 115°$. Sandwich Group.			
10	*iP·Z′Z*	8 41 20		
	$\Delta = 68°$. Kamchatka.			
12	*L·ZNE*	8 09.1		
	M·ZNE	11.1		10^s. Z: $4\,\mu$, N: $5\,\mu$, E: $3\,\mu$.
	F	13.5		
12	*iP·(Z′)Z*	15 30 27		No time marks on *Z′*.
	ipP·(Z′)	31 31		*pP* − *P* read on *Z′*.
	esP·Z	31 58		
	ePP·ZNE	33 32		
	eS·NE	40 13		
	isS·N	41 59		
	L·NE	16 00		
	$\Delta = 80°$. $h = 250$ km. China Sea.			
13	*L·NE*	9 18.6		
13	*L·N*	10 35		

October

15	*L·ZNE*	$8^h06.2^m$		
	M·ZNE	08.6		12^s. Z: $5\,\mu$, N: $5\,\mu$, E: $3\,\mu$.
	F	11.8		
18	*L·ZNE*	10 06.2		
	M·ZNE	08.6		10^s. Z: $7\,\mu$, N: $8\,\mu$, E: $4\,\mu$.
	F	11.8		
20	*iPP·Z′ZE*	1 30 40		
	eSKS·E	37 09		
	eSKKS·E	37 42		
	iS·N	38 16		
	iSS·N	45 15		
	L·NE	2 04		
	$\Delta = 103°$. Java.			
20	*L·ZNE*	8 37.1		
	M·ZNE	37.8		10^s. Z: $2\,\mu$, N: $2\,\mu$, E: $1\,\mu$.
	F	38.5		
22	*L·NE*	8 34.3		
	M·ZNE	38.6		10^s. Z: $2\,\mu$, N: $7\,\mu$, E: $4\,\mu$.
	F	40.9		
24	*L·ZNE*	8 19.5		
	M·ZN	20.8		10^s. Z: $2\,\mu$, N: $2\,\mu$.
28	*iP·Z′Z*	10 56 07		
	iS·NE	11 03 54		
	iPS·NE	04 07		
	iScS·N	06 07		
	L·NE	13		
	M·NE	17		20^s. N: $35\,\mu$, E: $10\,\mu$.
	M·NE	21		15^s. N: $12\,\mu$, E: $15\,\mu$.
	$\Delta = 56°$. Southern Tibet.			
29	*eP·Z′*	7 55 40		
	i·Z′Z	55 42		
	eS·NE	8 05 10		
	iSKS·N	05 47		
	eSS·NE	09.5		
	eSSS·NE	13.0		
	Paper-shift			
	M·NE	28		20^s. N: $15\,\mu$, E: $20\,\mu$.
	$\Delta = 73°$. Aleutian Islands.			
31	*L·NE*	20 02		

November

1	*ePP·Z′Z*	3 58.8		
	eSKKS·NE	4 05.6		
	ePS·ZNE	08.4		
	eSS·NE	15.1		
	eSSS·NE	19.4		
	L·NE	35		
	$\Delta = 118°$. Bismarck Sea.			

November

1	*ePKP·Z*	$12^h36^m04^s$		
	ePP·N	39 26		
	ePKS·NE	39 42		
	ePPP·E	41 43		
	eSS·N	57.1		
	L·NE	13 20		
	$\Delta = 137°$. New Hebrides.			
1	*L·NE*	17.1		
3	*iP·Z′Z*	14 41 14		
	L·NE	15 01		
	$\Delta = 56°$. Tibet.			
4	*eP·Z′Z*	8 41 08		
	ePP·Z′	44.2		
	eSKS·NE	51.5		
	L·NE	9 12		
	$\Delta = 85°$. Bonin Islands. Cf. next shock.			
4	*eP·Z*	8 43 39		
	eSKS·NE	54 04		
	$\Delta = 85°$. Bonin Islands. Cf. previous shock.			
4	*ePKP·Z*	23 14 36		
	eSS·NE	37.2		
	e·E	38 06		
	L·NE	24 04		
	$\Delta = 148°$. South Pacific Ocean.			
5	*eP·Z′*	14 32 06		
	eS·Z′	32 47		
	Both phases uncertain due to microseisms.			
	$\Delta = 3^1/_2°$. Northern Skagerrak.			
6	*iP·Z′ZNE*	23 09 38		Z: 10^s, $+ 100\,\mu$.
	ePP·Z	12 23		
	iS·NE (Wiech.)	19 01		12^s. N: $450\,\mu$, E: $250\,\mu$.
	L·NE (Wiech.)	31		
	M·NE (Wiech.)	45		20^s, $800\,\mu$.
	$\Delta = 73°$. Kurile Islands.			
6	*iP·Z′*	23 24 17		Aftershock.
6	*eP·Z′*	23 25 47		,,
	i·Z′	25 52		
6	*iP·Z′*	23 39 10		,,
6	*iP·Z′*	23 58 09		,,
7	*eP·Z′*	0 24 05		,,
7	*iP·Z′*	0 47 51		,,
7	*eP·Z′*	0 49 27		,,
7	*iP·Z′*	1 13 38		,,

November

7	*eP·Z′*	$1^h16^m34^s$		Aftershock.
7	*eP·Z′*	1 25 23		,,
7	*eP·Z′*	1 54 34		,,
7	*eP·Z′*	1 55 19		,,
7	*eP·Z′*	1 56 40		,,
7	*iP·Z′*	2 07 18		,,
7	*iP·Z′*	2 21 53		,,
7	*iP·Z′*	2 22 13		
7	*eP·Z′*	3 02 27		,,
	e(PcP)·Z′	02 40		
7	*eP·Z′*	3 38 30		,,
7	*iP·Z′*	5 11 30		,,
	L·NE	37		
7	*iP·Z′Z*	7 52 13	+	,,
7	*eP·Z′Z*	11 35 59		,,
	iPcP·Z′Z	36 13		
	L·NE	12 04		
7	*L·NE*	18 18		
8	*iP·Z′Z*	9 34 05	+	
	ePP·N	36 33		
	eS·NE	43 13		
	ePS·E	43 34		
	L·NE	56		
	$\Delta = 70°$. Kamchatka.			
9	*L·NE*	0 44		
9	*iP·Z′*	3 26 26	−	
	L·NE	57		
	$\Delta = 74°$. Kurile Islands.			
9	*L·NE*	18 32		
10	*L·NE*	12 12		
11	*L·NE*	12 10		
12	*L·NE*	4 51		

November
12 iP·Z′Z $20^h35^m04^s$ Z: 3^s, + 7 μ.
iS·NE 44 30 13^s. N: 25 μ, E: 15 μ.
iScS·NE 45 17 12^s. N: 15 μ, E: 20 μ.
i·N 50 17
i·E 50 29
L·NE 57
M·NE 21 05 20^s. N: 100 μ, E: 170 μ.
Δ = 73°. Kurile Islands.

13 L·ZNE 3 42

13 iP·Z′Z 4 16 14
L·NE 43
Δ = 73°. Kurile Islands.

13 L·NE 6 39

14 iP·Z′Z 5 46 31 –
L·NE 6 15
Δ = 73°. Kurile Islands.

14 ePP·Z 14 07 35
e·N 15 06
e·N 18 34
eSS·NE 23 16
L·NE 42
(Δ = 110°). Banda Sea.

15 iP·Z′Z 5 47 06
eS·NE 50 37
L·NE 53
Δ = 19°. Greece.

15 iP·Z′Z 9 12 23 +
iS·NE 21 49
L·NE 37
Δ = 73°. Kurile Islands.

15 L·NE 10 34

15 iP·Z′ 23 31 57
e·Z′ 32 08
Δ = 73°. Kurile Islands.

16 eP·Z′ 4 59 08
i·Z′ 59 21
Δ = 73°. Kurile Islands.

16 iP·Z′ 5 52 23
Δ = 73°. Kurile Islands.

16 iP·Z′ 6 27 07
i·Z′ 27 20
i·Z′ 27 38
Δ = 73°. Kurile Islands.

17 iP·Z′ 15 46 02
i·Z′ 46 14
Δ = 73°. Kurile Islands.

November
19 eP·Z′Z $9^h35^m25^s$
e·Z′ 35 38
e·NE 45 13
L·NE 10 00
Δ = 74°. Kurile Islands.

20 iP·Z′Z 5 47 44 Z′: +.
L·NE 6 14
Δ = 70°. Kamchatka.

20 iP·Z′ 14 29 35
L·NE 56
Δ = 73°. Kurile Islands

22 L·NE 0 55

23 e(P)·Z′ 13 12 03

23 e(P)·Z′ 13 54 06

23 eP·Z′ 20 25 46
Δ = 58°. Tibet.

23 iP·Z′ 22 30 46
Δ = 73°. Aleutian Islands.

23 eP·Z′ 23 49 02
Δ = 73°. Aleutian Islands.

26 L·NE 22 30

29 iP·Z′ 3 46 27 –
Δ = 75°. Kurile Islands.

29 iPKP·Z′ 5 06 32 –
Δ = 152°. Kermadec Islands.

30 eP·Z′Z 1 45 07
L·NE 2 14
(Δ = 84°). Japan.

December
1 L·NE 4 02

3 L·NE 10 31

7 e·Z′ 14 43 24
e·Z′ 44 02
e·Z′ 44 28
Local shock?

7 L·NE 18 44

8 L·NE 12 44

December
10 iPKP1·Z′Z $7^h22^m24^s$ Z: 7^s, + 6 μ.
iPKP2·Z′ZNE 23 03 Z: 6^s, – 10 μ.
ePKS·E 25 03
iPP·Z 26 41
iPPP·N 30 21
i·NE 7 33 03
e·NE 41 36
Δ = 158°. h = 300 km. New Zealand

10 L·NE 22 28

17 L·NE 16 18

19 iP·Z′ 0 52 59
eS·Z′ 54 54
L·NE 55.9
Δ = 10°. Norway-Sweden border.

19 iP·Z′ 3 32 16
L·NE 40
Δ = 21°. Turkey.

19 eP·Z′ 7 58 37
eS·Z′ 8 00 40
eL·Z′ 01 20
e·Z′NE 01 43
Δ = 10°. Norway-Sweden border.

20 L·NE 20 05

December
21 iP·Z′ $5^h54^m34^s$
iS·N 6 01 05 –
e·E 01 10
e·Z′ 02 02
iSS·N 04 18
i(Lg)·N 07 24
iL·Z′ 09 24
M·NE 10 10^s. N: 40 μ, E: 35 μ.
Δ = 44°. Sinkiang Province, China.

25 ePP·ZN 8 26 00
Paper-shift.
eSS·E 42.4
L·NE 9 04
Δ = 120°. New Britain.

28 iP·Z′Z 5 44 01 Z′: –. Z: +.
i·Z′ 44 05
iPP·Z 46 02 +
iS·NE 51 33
iScS·N 53 48
eSS·NE 55.6
L·NE 6 00
Δ = 54°. Nepal-India border.

28 eP·Z′ 11 51 09
i·Z′ 51 28
L·NE 58.4
Δ = 18°. Jan Mayen.

March 1959. HENRY JENSEN

Microseisms. København

1958	Z				N				E				1958
Oct.	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	Oct.
1	.. ..	.. ..	3 0.9 4.2	3 0.7 4.4	3 0.9 4.1	3 1.1 4.1	3 1.0 4.1	3 0.7 4.0	3 0.8 4.4	3 0.8 4.5	3 0.8 4.3	3 0.7 4.5	1
2	3 0.7 4.0	3 0.6 4.0	3 0.7 3.7	3 1.3 4.0	3 0.6 4.3	3 0.7 3.9	3 0.6 3.3	3 1.1 3.8	3 0.6 4.3	3 0.6 4.5	3 0.4 4.3	3 1.6 4.0	2
3	3 1.3 4.2	3 1.0 4.5	3 0.9 3.7	3 0.6 4.7	3 0.9 4.7	3 0.8 4.9	3 0.8 4.7	3 0.6 5.2	3 1.1 4.8	3 1.2 4.0	3 0.8 4.7	3 0.7 5.3	3
4	3 0.5 5.1	3 0.5 4.5	3 0.5 3.7	3 0.9 3.6	3 0.6 4.4	3 0.5 4.3	3 0.6 3.9	3 0.8 3.5	3 0.5 4.8	3 0.6 4.5	3 0.7 3.7	3 0.6 4.0	4
5	3 0.8 3.7	3 1.0 3.7	3 0.7 4.0	3 0.6 3.8	3 0.8 3.5	3 0.7 3.7	3 0.8 3.7	3 0.6 3.8	3 0.7 3.8	3 0.7 3.9	3 0.9 3.6	3 0.7 4.1	5
6	3 0.5 4.0	3 0.4 4.0	3 0.5 3.7	3 0.5 3.1	3 0.6 3.9	3 0.5 4.0	3 0.6 3.8	3 0.6 3.3	3 0.6 4.2	3 0.5 4.0	3 0.5 3.6	3 0.4 3.6	6
7	3 0.5 3.3	3 0.4 2.7	3 0.4 3.6	3 0.4 3.6	3 0.7 3.5	3 0.6 3.0	3 0.4 3.8	3 0.5 3.7	3 0.5 3.4	3 0.5 2.6	3 0.5 3.5	3 0.4 4.1	7
8	3 0.4 4.0	3 0.3 3.7	2 0.4 3.7	2 0.5 3.7	3 0.5 3.6	3 0.4 3.9	2 0.4 3.6	2 0.5 3.5	3 0.4 4.1	3 0.4 4.0	2 0.3 3.7	2 0.5 4.–	8
9	3 0.9 3.1	3 0.9 3.6	3 1.0 4.3	3 1.3 5.–	3 0.7 3.6	3 1.0 3.9	3 1.2 4.8	3 1.3 5.–	3 0.9 3.5	3 1.0 4.–	3 1.2 4.7	3 1.2 5.5	9
10	3 1.3 5.–	3 1.2 5.6	3 1.6 5.8	3 1.1 5.3	3 1.6 5.–	3 1.6 6.–	3 1.7 6.–	3 1.3 5.5	3 1.2 5.5	3 1.7 5.5	3 1.7 5.2	3 1.3 5.3	10
11	3 1.1 4.4	3 1.0 4.0	2 0.8 4.3	2 0.7 4.7	3 1.1 4.8	3 0.9 4.5	2 0.8 4.3	2 0.7 4.3	3 1.0 4.7	3 1.0 4.3	2 0.8 4.5	2 0.8 4.7	11
12	2 0.7 4.–	2 0.6 4.2	2 0.7 4.6	1 0.7 4.4	2 0.6 4.3	2 0.6 4.5	1 1.0 4.0	1 0.8 4.0	2 0.8 4.6	2 0.7 4.4	1 1.0 4.0	1 0.8 4.3	12
13	1 0.6 4.3	1 0.6 4.4	1 0.9 4.0	1 1.3 4.7	1 0.7 4.3	1 0.7 4.3	1 0.8 4.6	1 1.4 4.5	1 0.8 4.4	1 0.7 4.5	1 1.0 4.3	1 1.4 4.4	13
14	1 1.4 4.4	3 1.1 4.3	3 1.2 4.0	3 0.6 4.2	1 1.4 4.5	3 1.5 4.0	3 1.2 3.8	3 0.8 4.2	1 1.4 4.3	3 1.3 4.3	3 0.9 4.0	3 0.7 4.3	14
15	3 0.6 4.5	3 0.6 4.5	3 0.8 3.5	3 1.0 4.0	3 0.7 4.5	3 0.6 4.5	3 0.7 4.5	3 1.0 4.–	3 0.7 4.2	3 0.9 4.3	3 0.7 4.2	3 1.0 4.5	15
16	3 1.0 3.2	3 1.0 3.8	3 1.4 4.0	3 1.9 3.7	3 1.2 4.–	3 1.0 5.–	3 1.3 3.5	3 2.6 4.–	3 1.0 4.–	3 1.0 3.8	3 1.5 4.–	3 2.3 4.–	16
17	3 2.1 3.8	3 2.0 3.7	3 1.2 4.2	3 1.5 4.7	3 2.1 4.6	3 2.1 4.–	3 1.5 4.5	3 1.6 4.8	3 2.6 3.8	3 2.0 4.0	3 1.5 4.0	3 1.2 4.5	17
18	3 1.6 6.–	3 1.7 4.–	3 0.9 4.5	3 0.9 3.8	3 1.3 4.6	3 1.5 4.–	3 1.2 4.–	3 0.9 4.4	3 1.3 4.5	3 1.2 5.–	3 1.2 4.1	3 1.0 4.–	18
19	3 0.7 3.8	3 0.6 4.3	3 0.9 4.–	3 0.7 4.3	3 0.8 4.0	3 0.7 4.–	3 1.0 4.3	3 0.9 4.5	3 0.9 4.2	3 0.6 4.5	3 0.7 4.3	3 0.6 4.5	19
20	3 0.7 4.4	3 0.6 4.3	3 0.6 5.–	3 0.7 5.5	3 0.9 4.8	3 0.9 5.–	3 0.9 5.0	1 1.1 5.7	3 0.6 5.–	3 0.7 4.6	3 0.7 4.5	1 0.9 5.3	20
21	1 1.0 5.5	1 0.9 5.2	.. ..	3 0.7 3.7	1 1.1 5.7	1 1.1 5.3	.. ..	3 0.9 4.–	1 1.1 5.5	1 1.0 4.6	.. ..	3 0.7 3.8	21
22	3 0.8 4.–	3 0.9 4.0	3 0.7 4.4	3 1.0 4.7	3 0.8 4.–	3 0.7 4.2	3 0.6 4.5	3 1.0 4.6	3 0.6 4.3	3 0.8 4.2	3 0.7 4.3	3 1.3 5.–	22
23	1 1.2 4.6	1 1.4 4.2	1 1.4 4.7	1 1.7 4.–	1 1.1 4.7	1 1.3 4.7	1 1.6 5.0	1 1.4 5.3	1 1.6 5.–	1 1.5 4.7	1 1.6 5.0	1 1.5 5.0	23
24	1 1.4 4.4	1 1.4 4.5	1 1.4 4.5	1 1.6 4.7	1 1.5 4.6	1 1.4 4.7	1 1.3 5.–	1 1.5 5.5	1 1.5 4.7	1 1.7 4.6	1 1.8 5.–	1 2.0 5.–	24
25	1 1.5 4.4	1 2.4 4.8	1 2.2 5.–	1 2.0 5.–	1 1.6 5.3	1 2.3 5.6	1 3.– 5.–	1 2.0 5.0	1 1.9 5.2	1 2.5 5.3	1 2.7 5.–	1 2.0 5.0	25
26	1 1.7 4.6	1 1.6 5.0	3 1.3 5.0	3 1.1 4.5	1 1.9 5.–	1 1.5 5.–	3 1.1 5.–	3 0.9 5.0	1 2.1 5.2	1 2.0 5.0	3 1.4 5.–	3 1.5 4.7	26
27	3 1.0 5.3	3 0.9 5.–	3 0.9 4.5	3 1.0 4.4	3 0.9 4.8	3 1.0 5.0	3 0.7 4.3	3 0.7 4.4	3 1.3 4.6	3 1.1 4.8	3 1.2 4.6	3 0.9 4.2	27
28	3 0.8 4.3	1 0.8 4.5	.. ..	1 0.9 5.0	3 0.7 4.4	3 0.8 4.6	.. ..	1 0.9 5.0	3 0.9 4.3	3 0.8 4.7	.. ..	1 0.9 5.4	28
29	1 1.1 5.5	1 1.1 5.5	1 1.1 6.–	3 1.5 6.–	1 1.0 5.7	1 1.1 6.–	3 1.2 6.–	3 1.5 6.–	1 1.0 5.3	1 1.1 5.–	3 1.2 6.0	3 1.7 6.–	29
30	3 1.2 6.–	3 1.0 5.3	3 0.9 5.0	3 1.0 4.8	3 1.1 6.–	3 1.1 6.–	3 0.8 5.0	3 1.0 4.8	3 1.2 5.5	3 1.1 5.5	3 1.0 5.4	3 1.1 5.6	30
31	3 0.9 5.0	3 1.0 5.–	3 0.8 5.2	3 0.9 5.–	3 1.0 5.–	3 0.9 5.6	3 1.0 5.5	3 0.9 5.5	3 1.0 5.3	3 1.0 5.5	3 1.0 5.–	3 1.2 5.–	31

Microseisms. København

1958	Z				N				E				1958
Nov.	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	Nov.
1	3 1.0 5.0	3 0.8 5.0	3 0.8 5.0	3 0.7 5.0	3 0.9 5.0	3 0.8 5.0	3 0.7 4.5	3 0.6 4.5	3 1.0 5.0	3 0.8 5.0	3 0.9 4.8	3 1.0 4.5	1
2	3 1.0 5.0	1 1.2 5.0	1 1.0 4.7	1 1.0 5.2	3 0.9 4.3	1 1.0 5.0	1 1.0 5.0	1 1.0 5.0	3 0.9 5.0	1 1.3 5.0	1 1.5 5.0	1 1.0 5.0	2
3	3 0.6 4.5	3 0.5 5.0	3 0.6 3.7	3 0.6 4.0	3 0.8 5.0	3 0.7 4.0	3 0.6 4.0	3 0.4 4.0	3 0.8 5.0	3 0.7 4.5	3 0.7 4.0	3 0.6 4.5	3
4	3 0.5 4.3	3 0.5 4.5	3 0.4 4.0	3 0.4 3.7	3 0.4 4.3	3 0.4 4.3	3 0.5 4.0	3 0.6 3.8	3 0.5 4.5	3 0.6 5.0	3 0.6 4.0	3 0.4 5.0	4
5	3 0.3 3.8	3 0.5 3.5	3 0.6 4.0	3 0.6 3.8	3 0.4 4.0	3 0.4 4.0	3 0.5 3.7	3 0.6 3.8	3 0.4 4.0	3 0.5 4.0	3 0.6 4.0	3 0.7 3.8	5
6	3 0.6 3.5	3 0.5 4.2	3 0.8 4.0	3 0.8 5.0	3 0.6 4.0	3 0.7 4.0	3 0.6 5.0	3 0.7 5.0	3 0.7 4.0	3 0.7 4.0	3 0.7 4.5	3 0.8 4.5	6
7	.. ..	.. ..	3 0.9 4.0	3 1.2 4.0	.. ..	.. ..	3 0.8 4.8	3 0.9 4.5	.. ..	.. ..	3 0.9 4.0	3 0.9 4.5	7
8	3 0.9 4.2	3 1.2 3.5	3 0.8 3.5	3 0.8 3.4	3 1.1 4.0	3 1.0 4.0	3 0.7 3.5	3 0.7 4.0	3 1.0 4.5	3 1.0 4.0	3 0.8 3.5	3 0.7 3.7	8
9	3 0.6 3.5	3 0.7 4.7	1 1.5 6.–	1 1.2 5.–	3 0.6 4.5	3 0.7 5.–	1 1.2 6.–	1 1.1 5.–	3 0.7 3.9	3 0.7 4.7	1 1.5 5.–	1 1.2 5.–	9
10	3 0.9 4.5	3 0.8 4.7	3 0.8 3.8	3 0.9 4.0	3 0.8 5.0	3 0.7 4.6	3 0.8 4.0	3 0.7 4.0	3 1.0 5.5	3 0.9 4.7	3 0.9 4.0	3 0.7 4.3	10
11	3 0.6 4.5	3 0.6 4.0	2 0.6 4.0	2 0.6 3.8	3 0.5 4.7	3 0.6 3.9	2 0.5 4.0	2 0.6 4.0	3 0.6 4.5	3 0.5 5.–	2 0.4 4.5	2 0.4 4.5	11
12	2 0.6 3.9	3 0.6 4.2	3 1.3 6.5	3 1.4 5.8	2 0.6 4.0	3 0.6 4.5	3 0.9 6.0	3 1.2 5.5	2 0.6 4.0	3 0.7 4.5	3 1.0 5.8	3 1.4 5.–	12
13	3 1.4 5.5	3 1.3 5.0	3 0.9 5.0	3 1.2 4.0	3 1.1 4.7	3 1.1 5.5	3 1.1 5.0	3 1.1 5.0	3 1.5 5.0	3 1.1 5.0	3 1.1 4.7	3 1.0 4.0	13
14	3 1.0 4.0	3 0.8 3.5	3 0.3 4.0	3 0.3 4.5	3 1.0 4.0	3 0.8 4.0	3 0.4 4.3	3 0.4 4.0	3 0.9 4.3	3 0.8 4.8	3 0.6 4.0	3 0.4 5.0	14
15	3 0.3 5.0	3 0.4 4.7	3 0.4 5.0	3 0.7 5.0	3 0.6 4.0	3 0.6 4.5	3 0.7 4.8	3 1.2 5.5	3 0.4 4.5	3 0.5 4.5	3 0.8 5.0	3 1.2 5.5	15
16	3 1.5 6.–	3 2.– 6.–	3 3.– 6.–	3 3.– 6.–	3 2.– 6.–	3 3.– 6.0	3 3.5 6.4	1 3.2 6.–	3 2.– 5.5	3 3.– 5.5	3 4.– 6.–	1 3.5 6.–	16
17	1 2.– 5.6	1 2.– 5.7	1 1.7 5.5	3 1.7 6.–	1 2.8 5.5	1 2.8 5.7	1 3.0 5.8	1 2.4 5.7	1 3.– 6.0	1 2.5 5.5	1 3.– 5.7	1 2.5 5.5	17
18	3 2.– 6.–	3 2.– 6.–	3 1.2 5.0	3 1.0 5.5	3 3.– 6.–	3 3.– 6.–	3 2.– 5.–	3 1.5 5.–	3 3.– 5.0	3 3.– 5.5	3 2.– 5.0	3 1.5 5.0	18
19	3 0.6 5.0	3 0.5 5.0	3 0.4 5.0	3 0.5 5.0	3 1.0 5.–	3 0.7 4.5	3 0.8 4.5	3 0.8 4.5	3 1.0 5.0	3 0.8 5.0	3 0.7 4.7	3 0.7 5.0	19
20	3 0.5 5.0	3 0.4 5.0	3 0.5 5.0	3 0.4 5.0	3 0.9 4.–	3 1.0 4.–	3 0.8 5.–	3 0.8 5.–	3 0.9 4.0	3 0.8 5.0	3 0.7 5.0	3 0.7 5.0	20
21	3 0.4 5.0	3 0.5 5.0	1 0.6 5.0	1 0.6 5.5	3 0.7 5.0	3 0.8 5.0	1 1.0 5.5	1 1.1 5.2	3 0.9 5.0	3 0.8 5.0	1 0.9 5.0	1 1.2 5.0	21
22	3 0.5 4.5	3 0.3 4.5	3 0.3 4.5	3 0.3 4.5	3 0.7 4.7	3 0.7 4.–	3 0.7 4.–	3 0.7 4.3	3 0.9 5.0	3 0.8 4.5	3 0.7 4.5	3 0.9 4.5	22
23	3 0.4 4.7	3 0.6 4.8	3 0.7 5.0	3 0.7 5.0	3 0.9 5.–	3 0.9 5.–	3 1.0 5.5	3 1.0 5.5	3 0.8 4.7	3 1.0 5.0	3 1.6 5.5	3 1.4 5.3	23
24	3 0.7 5.0	3 0.7 5.0	3 0.6 5.0	3 0.5 5.0	3 1.2 5.–	3 1.2 5.–	3 1.1 5.0	3 0.9 4.6	3 1.2 5.3	3 1.1 5.2	3 1.0 5.0	3 1.0 4.8	24
25	3 0.5 4.7	3 0.4 4.7	3 0.5 4.4	3 0.6 4.2	3 0.8 4.6	3 0.7 4.4	3 0.8 4.5	3 1.0 4.8	3 1.0 4.6	3 1.0 4.8	3 1.0 4.5	3 1.0 4.5	25
26	3 0.5 4.3	3 0.5 4.6	3 0.6 4.8	3 0.6 4.7	3 0.8 4.4	3 0.8 4.3	3 0.8 4.5	3 0.8 5.0	3 1.0 4.5	3 1.0 4.4	3 0.9 4.8	3 0.9 4.6	26
27	3 0.5 5.4	3 0.5 5.5	3 0.5 5.0	3 0.6 5.4	3 0.6 5.2	3 0.6 5.4	3 0.7 5.2	3 0.7 5.3	3 0.8 4.8	3 0.7 5.4	3 0.8 5.2	3 0.9 5.7	27
28	3 0.5 5.5	3 0.6 5.0	3 0.5 5.0	3 0.6 5.0	3 0.8 5.4	3 0.8 4.7	3 0.9 5.0	3 1.0 4.8	3 0.9 5.0	3 0.9 4.7	3 1.0 4.8	3 0.9 5.0	28
29	3 0.6 5.0	3 0.6 5.0	3 0.6 4.6	3 0.6 4.6	3 0.7 4.6	3 0.9 4.5	3 1.1 4.4	3 1.0 4.3	3 0.8 4.7	3 0.9 4.7	3 1.1 4.8	3 1.1 4.4	29
30	3 0.7 4.6	1 1.0 5.0	1 1.0 5.2	3 0.9 5.0	3 1.0 4.2	1 1.1 5.0	1 1.5 5.2	3 1.2 5.0	3 1.0 4.6	1 1.4 4.8	1 1.8 5.0	3 1.5 5.0	30

Microseisms. København

1958	Z				N				E				1958
Dec.	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	0^{h}	6^{h}	12^{h}	18^{h}	Dec.
1	3 0.7 4.2	3 0.7 4.0	3 0.4 4.0	3 0.3 4.0	3 1.0 3.8	3 0.9 4.2	3 0.6 4.0	3 0.4 4.4	3 1.1 5.–	3 0.9 4.3	3 0.7 4.8	3 0.6 4.6	1
2	2 0.2 4.7	2 0.2 4.4	2 0.3 4.8	2 0.3 4.7	3 0.4 4.4	3 0.4 4.3	2 0.5 4.0	2 0.4 4.6	3 0.4 4.8	3 0.4 4.7	2 0.5 4.0	2 0.5 4.2	2
3	2 0.3 4.6	2 0.3 3.8	2 0.4 4.2	1 0.7 4.8	2 0.4 3.8	2 0.5 3.8	2 0.6 4.3	1 1.0 5.2	2 0.6 3.8	2 0.7 3.8	2 0.8 4.6	1 1.2 5.0	3
4	1 1.1 5.6	1 2.2 6.–	1 4.1 6.3	1 4.1 7.2	1 1.5 5.0	1 3.– 6.–	1 5.– 6.0	1 6.– 6.5	1 1.5 5.0	1 3.– 5.6	1 5.– 6.0	1 5.– 6.4	4
5	1 4.– 7.0	1 4.– 6.4	1 2.7 5.7	1 2.3 5.8	1 6.– 6.5	1 5.– 6.5	1 3.8 5.7	1 3.0 6.2	1 5.– 6.4	1 5.– 6.0	1 3.5 5.4	1 3.– 5.2	5
6	1 2.3 6.0	1 1.3 5.6	1 1.0 5.4	1 0.8 5.6	1 2.6 6.0	1 2.2 5.8	1 1.4 5.5	1 1.1 5.6	1 2.8 5.6	1 2.2 5.8	1 1.6 5.3	1 1.6 5.5	6
7	1 0.8 5.2	3 0.8 5.2	3 0.5 5.0	3 0.5 5.0	1 1.2 5.5	1 1.1 5.5	3 0.8 4.4	3 0.7 4.4	1 1.2 5.4	1 0.9 5.0	3 0.8 5.0	3 0.8 4.8	7
8	2 0.4 4.7	2 0.5 4.8	3 0.6 4.2	3 0.4 4.0	2 0.7 4.6	2 0.7 4.0	3 0.8 3.8	3 0.8 3.8	3 0.8 4.8	3 0.7 4.8	3 0.8 4.3	3 0.9 4.4	8
9	3 0.5 4.4	3 0.5 4.2	3 0.8 4.0	3 1.0 4.0	3 1.0 4.0	3 0.8 3.6	3 1.4 3.7	3 1.2 3.6	3 1.0 4.4	3 1.0 4.0	3 1.2 3.8	3 1.4 4.0	9
10	3 0.6 3.7	3 0.5 4.4	3 0.4 5.0	3 0.5 5.0	3 0.8 3.8	3 0.8 5.–	3 0.7 4.2	3 0.8 4.4	3 1.3 3.7	3 0.9 4.5	3 1.0 4.8	3 1.0 4.4	10
11	3 0.6 4.5	3 0.8 5.–	3 0.7 5.4	3 0.6 5.–	3 0.7 4.5	3 1.1 5.–	3 1.0 5.6	3 1.0 5.0	3 1.1 4.5	3 1.3 4.8	3 1.2 5.0	3 1.0 5.0	11
12	3 0.8 5.0	3 0.6 5.–	3 1.0 5.2	2 1.5 5.0	3 1.1 5.4	3 1.0 5.5	3 1.3 5.2	2 1.7 5.1	3 1.1 5.0	3 1.1 4.8	3 1.5 5.3	2 1.8 5.0	12
13	3 1.1 5.3	3 1.5 5.0	3 2.0 5.0	3 1.9 5.0	3 1.7 5.0	3 1.9 4.8	3 3.0 4.6	3 2.3 5.2	3 1.7 4.6	3 2.0 4.7	3 3.0 5.–	3 2.7 5.2	13
14	3 1.8 5.0	3 1.5 4.6	3 0.8 4.7	3 0.7 4.5	3 1.7 5.2	3 1.6 5.0	3 1.2 4.8	3 0.9 4.5	3 2.3 5.2	3 1.8 5.0	3 1.5 4.6	3 1.2 4.6	14
15	3 0.8 4.0	3 1.0 3.8	1 1.1 3.6	1 1.0 3.6	3 0.7 3.8	3 1.2 4.0	1 1.4 4.0	1 1.4 3.6	3 1.0 4.4	3 1.4 4.0	1 1.3 3.8	1 1.3 3.8	15
16	3 0.9 3.6	3 0.8 4.0	3 0.7 4.2	3 0.6 4.2	3 1.4 3.7	3 1.2 4.2	3 1.2 4.0	3 0.7 4.4	3 1.6 4.0	3 1.3 4.4	3 1.0 4.5	3 1.1 4.0	16
17	3 0.5 3.8	3 0.5 4.0	3 0.4 4.0	3 0.4 4.0	3 0.7 4.4	3 0.7 4.0	3 0.7 3.8	3 0.7 4.0	3 1.0 4.0	3 0.8 3.8	3 0.6 4.2	3 0.6 4.6	17
18	3 0.5 4.7	3 0.4 5.0	2 0.3 5.2	1 0.8 6.5	3 0.6 4.7	3 0.5 5.–	2 0.5 5.0	1 0.9 6.–	3 0.7 4.4	3 0.6 4.7	2 0.6 5.0	1 1.0 6.0	18
19	1 0.9 6.5	1 0.8 6.–	3 1.0 5.0	3 1.4 4.0	1 1.0 6.5	1 1.1 6.–	3 1.4 4.2	3 2.1 4.0	1 1.2 7.0	1 1.2 6.–	3 1.6 5.–	3 1.7 4.6	19
20	3 2.0 4.0	3 2.3 4.0	3 2.4 4.0	3 1.9 3.8	3 2.5 4.0	3 2.4 3.7	3 2.4 4.0	3 1.8 4.3	3 3.0 4.0	3 2.4 4.3	3 2.4 4.0	3 2.3 4.0	20
21	3 1.4 4.5	3 1.2 4.2	3 0.7 4.4	3 0.8 4.5	3 1.7 4.6	3 1.1 4.3	3 1.5 4.3	3 1.6 4.0	3 1.7 4.4	3 1.6 4.5	3 1.5 5.5	3 1.2 4.2	21
22	3 0.7 4.5	3 0.7 4.1	3 0.5 4.5	3 0.5 4.8	3 1.1 4.2	3 1.0 4.5	3 0.7 4.4	3 0.6 4.3	3 1.2 4.5	3 1.0 4.7	3 0.8 4.6	3 0.8 5.0	22
23	3 0.7 6.–	3 0.7 6.5	3 0.5 6.5	3 0.4 6.3	3 0.9 5.5	3 0.8 5.8	3 0.8 5.–	3 0.7 6.0	3 1.0 5.6	3 1.1 5.8	3 1.0 5.8	3 0.8 5.6	23
24	3 0.5 4.8	3 0.6 4.5	3 0.5 4.8	3 0.4 4.0	3 0.8 5.–	3 1.0 4.5	3 0.7 4.6	3 0.5 4.3	3 0.9 4.8	3 0.9 5.0	3 0.7 4.4	3 0.6 4.5	24
25	2 0.3 4.6	2 0.2 4.6	2 0.3 4.8	2 0.3 4.5	2 0.5 4.3	2 0.5 4.5	2 0.4 4.2	2 0.4 4.2	2 0.5 4.6	2 0.6 4.6	2 0.5 4.3	2 0.6 4.0	25
26	2 0.3 4.2	2 0.4 4.0	2 0.3 4.2	3 0.6 3.8	2 0.5 3.6	2 0.5 4.0	2 0.7 3.5	3 0.8 3.8	2 0.5 4.5	2 0.5 4.2	2 0.6 3.8	3 0.8 3.6	26
27	.. ..	.. ..	3 0.6 4.0	3 0.4 4.2	3 0.8 3.7	3 0.8 3.9	3 0.7 4.0	3 1.0 3.8	3 1.2 3.8	3 1.2 4.0	3 0.7 4.4	3 1.0 4.0	27
28	3 0.4 4.2	.. ..	2 0.5 5.0	3 0.8 6.5	3 0.7 4.4	.. ..	2 0.7 5.0	3 1.2 5.6	3 0.8 4.2	.. ..	2 0.8 5.5	3 1.5 4.7	28
29	3 1.9 6.–	3 1.4 4.5	3 2.0 5.6	3 2.0 6.0	3 2.0 6.–	3 2.0 5.5	3 2.5 6.–	3 3.– 6.–	3 2.5 7.–	3 2.5 5.–	3 2.5 5.3	3 2.8 5.–	29
30	3 2.0 6.–	3 1.9 5.4	3 1.3 5.2	3 1.1 5.0	3 3.– 6.–	3 2.0 5.6	3 2.0 5.8	3 1.6 5.2	3 2.5 5.–	3 2.3 5.–	3 1.8 5.2	3 1.8 4.8	30
31	3 1.0 5.0	3 0.8 4.8	3 0.7 4.6	3 0.6 4.4	3 1.4 4.8	3 1.2 4.7	3 1.3 4.5	3 0.8 4.1	3 1.6 5.0	3 1.1 4.8	3 1.1 4.5	3 1.0 4.5	31

BIANCO LUNO A/S, KBH.

No. 73

Jan.–June 1958

GEODÆTISK INSTITUT

Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation: chalk

ADDITIONAL MICROSEISMIC READINGS

for

IGY Days and Periods

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated. All readings are due to the Galitzin instruments, the constants of which are given in the bulletins no. 71 and 72. The given hours are GMT.

Microseisms København

1958	0^{h}	1^{h}	2^{h}	3^{h}	4^{h}	5^{h}	6^{h}	7^{h}	8^{h}	9^{h}	10^{h}	11^{h}
Jan. 3												
N	3 0.4 4.6	3 0.4 4.2	3 0.4 4.2	3 0.4 4.5	3 0.4 4.3	3 0.4 4.3	3 0.4 4.7	3 0.4 4.2	3 0.4 4.6	.. ..	3 0.4 4.0	3 0.4 4.3
E	3 0.4 4.5	3 0.4 4.3	3 0.4 4.6	3 0.4 4.7	3 0.4 4.5	3 0.4 4.6	3 0.4 4.3	3 0.4 4.4	3 0.4 4.5	.. ..	2 0.4 4.4	2 0.4 4.3
Z	3 0.4 4.4	3 0.4 4.7	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	2 0.4 4.3	2 0.4 4.4
Jan. 4												
N	2 0.6 4.0	2 0.6 4.0	2 0.6 4.0	2 0.6 4.5	2 0.6 4.0	2 0.7 3.8	2 0.7 4.1	2 0.7 4.4	2 0.7 4.5	2 0.7 4.4	2 0.8 4.2	2 0.8 4.6
E	2 0.6 3.9	2 0.7 4.3	2 0.7 4.0	2 0.7 4.2	2 0.7 4.3	2 0.7 4.1	2 0.7 4.1	2 0.7 4.1	2 0.7 4.4	2 0.8 4.4	2 0.8 4.3	2 0.9 4.4
Z	2 0.6 4.2	2 0.6 4.3	2 0.6 4.4	2 0.6 4.3	2 0.7 3.9	2 0.7 3.8	2 0.7 4.3	2 0.7 4.4	2 0.7 4.0	2 0.7 4.1	2 0.8 4.3	2 0.8 4.4
Jan. 19												
N	3 3.5 5.2	3 3.5 5.1	3 2.9 5.0	3 3.2 4.8	3 3.0 5.1	3 2.7 4.8	3 3.0 5.1	3 2.8 5.2	3 2.7 4.6	3 2.5 4.8	3 2.4 4.5	3 2.2 4.5
E	3 3.5 5.4	3 3.2 5.2	3 3.2 5.2	3 3.2 5.2	3 2.7 5.0	3 3.0 4.7	3 3.0 5.1	3 3.0 4.5	3 2.9 4.8	3 3.0 4.7	3 3.0 4.4	3 2.7 4.4
Z	3 3.5 5.0	3 3.5 5.4	3 2.8 5.0	3 3.0 5.3	3 3.0 4.9	3 2.9 4.9	3 2.9 5.1	3 2.5 4.6	3 2.2 4.7	3 2.3 4.6	3 2.3 4.4	3 2.3 4.4
Jan. 20												
N	3 2.8 5.2	3 3.0 5.5	3 2.9 5.8	3 2.8 5.7	3 2.7 5.7	3 2.7 5.4	3 2.8 5.3	3 2.8 5.4	3 2.6 5.6	3 2.5 6.0	3 2.4 5.8	3 2.3 5.7
E	3 2.5 4.9	3 2.7 4.8	3 2.6 5.5	3 2.7 5.5	3 2.5 5.5	3 2.5 5.2	3 2.4 5.0	3 2.5 5.4	3 2.2 5.4	3 1.9 5.6	3 1.9 5.6	3 1.8 5.8
Z	3 2.8 5.1	3 2.9 5.2	3 2.6 5.6	3 2.4 5.5	3 2.2 5.2	3 2.5 5.6	3 2.4 5.7	3 2.6 5.3	3 2.2 5.3	3 2.3 6.0	3 2.2 5.7	3 2.3 6.0
Feb. 10												
N	3 1.3 3.6	3 1.0 3.5	3 1.1 3.8	2 1.2 3.7	2 1.2 3.9	2 1.3 4.1	2 1.5 3.7	2 1.4 3.9	2 1.5 3.9	2 1.5 4.1	2 1.3 4.1	2 1.5 4.0
E	3 1.5 3.3	2 1.6 3.7	2 1.6 3.9	2 1.5 4.0	2 1.4 3.7	3 1.6 4.2	3 1.5 3.9	2 1.7 4.2	2 1.6 4.1	1 1.7 4.2	1 1.8 4.0	1 1.8 4.1
Z	3 1.6 3.8	2 1.3 4.0	2 1.2 3.9	2 1.1 3.8	2 1.2 3.9	3 1.4 3.9	3 1.3 4.1	3 1.3 3.8	1 1.4 4.0	1 1.5 4.2	1 1.5 4.0	1 1.6 4.1
Feb. 18												
N	1 3.2 6.–	1 3.0 5.4	1 3.2 5.3	1 2.5 5.4	1 2.7 6.2	1 2.6 5.2	1 3.– 5.5	1 2.5 5.8	1 2.2 5.7	1 2.5 5.2	1 2.5 5.4	1 2.4 5.3
E	3 2.5 4.7	3 2.5 5.5	3 2.3 5.2	3 2.6 4.7	3 2.8 4.8	3 2.7 5.5	3 2.4 4.5	3 2.5 4.8	3 2.2 5.0	1 2.0 5.0	1 2.4 4.8	1 2.2 5.3
Z	3 2.5 4.8	3 3.0 5.2	3 2.7 5.0	3 2.5 5.5	3 2.5 5.5	3 2.6 5.2	1 2.5 4.3	3 2.7 5.0	3 2.5 5.5	1 1.5 5.0	1 1.9 4.5	1 1.9 4.5
Feb. 19												
N	2 1.3 4.5	2 1.1 4.8	2 1.1 4.9	2 1.0 4.7	2 1.0 4.8	2 1.0 4.8	2 1.0 4.8	2 1.2 5.0	2 1.2 4.4	2 1.0 4.8	2 1.1 4.6	.. ..
E	2 1.3 5.0	2 1.5 4.2	2 1.4 4.5	2 1.4 4.3	2 1.2 4.5	2 1.2 4.3	2 1.1 4.5	2 1.3 4.7	2 1.2 4.4	2 1.3 4.2	2 1.1 4.6	2 1.1 4.7
Z	2 1.2 4.7	2 1.1 5.0	2 1.1 5.0	2 1.1 4.8	2 1.1 5.2	2 1.1 4.7	2 1.0 4.7	2 0.8 5.1	2 0.9 4.8	2 0.9 4.5	2 0.9 4.3	2 0.8 4.8
Feb. 26												
N	2 0.9 3.1	2 0.9 2.8	2 0.9 2.8	2 1.0 2.6	2 0.9 2.7	2 0.9 3.2	2 1.0 2.7	2 1.1 2.6	2 0.9 2.8	2 0.9 2.8	2 1.1 2.5	2 1.1 2.5
E	2 0.9 3.3	2 1.0 3.2	2 1.1 3.1	2 1.0 3.4	2 1.0 3.0	2 0.9 3.4	2 0.8 3.0	2 0.9 2.8	2 0.8 3.0	2 0.8 2.9	2 0.9 2.7	2 0.9 2.8
Z	2 0.9 3.5	2 0.9 3.5	2 0.9 3.4	2 0.9 3.4	2 0.9 3.4	2 1.0 3.1	2 1.0 3.1	2 0.9 2.8	2 0.8 3.3	2 0.7 2.9	2 0.7 3.0	2 0.7 3.3
March 17												
N	2 0.7 4.2	2 0.4 4.7	2 0.5 4.4	2 0.5 4.5	2 0.5 4.4	2 0.6 4.2	2 0.9 4.1	2 0.7 4.3	2 0.7 4.6	2 0.6 4.4	2 0.6 4.5	2 0.6 4.8
E	2 0.6 4.5	2 0.6 4.7	2 0.5 4.6	2 0.5 4.4	2 0.5 4.6	2 0.6 4.6	2 0.6 4.7	2 0.6 4.7	2 0.6 4.7	2 0.6 4.6	2 0.6 4.4	2 0.7 4.5
Z	2 0.4 4.0	2 0.3 4.5	2 0.3 4.3	2 0.3 4.4	2 0.4 4.6	2 0.4 4.6	2 0.4 4.7	2 0.4 4.6	2 0.4 4.8	2 0.4 4.5	2 0.5 4.6	2 0.5 4.8
March 18												
N	2 0.8 4.4	2 0.7 4.7	2 0.7 4.6	2 0.6 4.4	2 0.6 4.7	2 0.6 4.5	2 0.7 4.3	2 0.5 4.6	2 0.5 4.5	2 0.4 4.2	2 0.4 4.3	2 0.4 4.5
E	1 0.8 4.9	1 0.6 4.8	1 0.6 4.9	1 0.5 4.7	2 0.5 4.8	2 0.5 4.9	2 0.5 4.8	2 0.5 4.9	2 0.5 4.7	2 0.5 4.5	2 0.5 4.6	2 0.5 4.4
Z	2 0.5 5.0	2 0.5 4.8	2 0.5 4.6	2 0.4 4.5	2 0.4 4.3	2 0.4 4.6	2 0.4 4.5	2 0.4 4.4	2 0.4 4.5	2 0.3 4.4	2 0.3 4.3	2 0.3 4.5
March 19												
N	2 0.4 4.4	2 0.4 4.3	2 0.4 4.1	2 0.4 4.2	2 0.4 4.1	2 0.4 4.0	2 0.4 3.7	2 0.4 3.9	2 0.4 3.8	2 0.6 3.5	2 0.5 3.8	2 0.6 3.2
E	2 0.4 4.2	2 0.4 4.2	2 0.4 4.2	2 0.4 4.0	2 0.4 4.0	2 0.4 3.8	2 0.4 3.5	2 0.4 3.8	2 0.4 4.0	2 0.4 3.6	2 0.4 3.6	2 0.4 4.1
Z	2 0.3 4.3	2 0.3 4.3	2 0.3 4.1	2 0.3 4.2	2 0.3 4.3	2 0.3 4.0	2 0.3 4.3	2 0.3 4.2	2 0.3 4.0	2 0.3 3.7	2 0.3 4.2	2 0.3 3.7
March 20												
N	2 0.6 3.3	2 0.5 3.5	.. ..	.. ..	2 0.5 3.2	2 0.6 3.5	2 0.6 3.7	2 0.6 4.2	2 0.6 3.4	2 0.6 3.4	2 0.6 3.6	2 0.6 3.4
E	2 0.4 3.6	2 0.5 3.5	.. ..	.. ..	2 0.4 3.4	2 0.7 3.5	2 0.4 3.4	2 0.4 3.5	2 0.4 3.6	2 0.5 3.7	2 0.5 3.7	2 0.5 3.7
Z	2 0.3 4.3	2 0.4 4.0	.. ..	.. ..	2 0.3 4.1	2 0.5 4.7	2 0.3 4.0	2 0.3 4.2	2 0.3 4.3	2 0.3 4.1	2 0.4 4.0	2 0.3 3.5

12^{h}	13^{h}	14^{h}	15^{h}	16^{h}	17^{h}	18^{h}	19^{h}	20^{h}	21^{h}	22^{h}	23^{h}	1958
												Jan. 3
3 0.4 4.0	3 0.4 4.3	2 0.4 4.2	2 0.4 4.1	2 0.4 4.2	2 0.5 3.9	2 0.5 4.1	2 0.5 4.4	2 0.5 4.4	2 0.6 4.0	2 0.6 4.2	2 0.5 4.2	*N*
2 0.4 4.3	2 0.4 4.0	2 0.5 4.2	2 0.5 4.5	2 0.5 4.0	2 0.5 4.0	2 0.5 3.9	2 0.6 4.2	2 0.6 4.4	2 0.6 3.8	2 0.6 4.3	3 0.6 4.4	*E*
2 0.4 4.3	2 0.4 4.4	2 0.4 4.5	2 0.5 4.2	2 0.4 4.2	2 0.4 4.1	2 0.5 4.2	2 0.5 4.6	2 0.5 4.2	2 0.5 4.1	2 0.5 4.4	2 0.6 4.2	*Z*
												Jan. 4
2 1.0 4.6	2 0.9 4.4	2 0.9 4.4	2 0.9 4.8	2 1.1 4.7	2 1.2 4.5	2 1.2 4.5	2 1.2 4.3	2 1.2 4.2	2 1.2 4.6	2 1.3 4.4	3 1.3 4.0	*N*
2 1.1 4.4	2 1.1 4.6	2 1.1 4.6	2 1.0 4.5	2 1.2 4.6	2 1.1 4.6	2 1.1 4.3	2 1.2 4.6	2 1.4 4.3	2 1.4 4.7	2 1.3 4.6	2 1.2 4.4	*E*
2 1.0 4.2	2 0.9 4.4	2 0.9 4.5	2 1.0 4.5	2 1.2 4.6	2 1.0 4.6	2 0.9 4.5	2 1.3 4.4	2 1.2 4.2	2 1.3 4.3	2 1.1 4.4	3 1.2 4.3	*Z*
												Jan. 19
3 2.7 4.9	3 2.4 4.5	3 2.3 4.3	.. ..	.. ..	.. ..	3 2.5 4.6	3 3.0 5.2	3 2.4 4.4	3 2.7 4.7	3 3.0 4.8	3 2.8 5.2	*N*
3 2.5 4.6	3 2.3 4.3	3 2.8 4.4	.. ..	.. ..	.. ..	3 2.5 5.0	3 2.7 5.0	3 2.8 4.8	3 2.7 4.8	3 2.6 5.0	3 2.5 5.5	*E*
3 2.7 4.5	3 2.8 4.2	3 2.9 4.2	.. ..	.. ..	.. ..	3 2.5 5.0	3 2.5 4.6	3 2.5 4.3	3 2.5 4.7	3 2.3 4.5	3 2.6 5.0	*Z*
												Jan. 20
3 2.5 6.2	3 2.3 6.0	3 2.2 5.6	3 2.0 6.0	3 2.6 6.0	3 2.2 5.8	3 2.0 5.7	3 1.8 6.2	3 1.9 5.6	3 1.8 5.5	3 2.2 5.4	3 2.4 5.3	*N*
3 2.1 5.5	3 1.9 5.6	3 1.9 5.0	3 1.9 5.3	3 2.0 5.6	3 2.0 6.0	3 1.7 5.7	3 1.8 5.8	3 1.8 5.3	3 1.8 5.5	3 2.1 5.3	3 1.8 5.2	*E*
3 2.6 6.3	3 2.5 5.7	3 2.3 5.6	3 1.9 5.3	3 2.2 5.5	3 2.3 6.0	3 2.0 5.8	3 2.0 5.6	3 1.8 5.5	3 1.8 5.8	3 1.9 5.6	3 1.8 5.9	*Z*
												Feb. 10
2 1.8 4.0	1 1.7 4.2	1 1.9 4.1	1 1.9 4.0	1 2.0 4.2	1 2.3 4.0	1 2.6 3.7	1 2.5 3.9	1 2.4 4.3	1 2.4 4.3	1 2.2 4.0	1 2.3 4.2	*N*
1 2.1 4.0	1 2.0 3.8	1 2.2 4.2	1 2.5 4.0	1 2.8 3.9	1 3.0 4.0	1 3.0 3.8	1 3.0 4.4	1 2.8 4.6	1 3.1 4.4	1 3.3 4.2	1 3.0 4.1	*E*
1 1.8 3.8	1 2.1 3.9	1 2.3 4.1	1 2.2 3.9	1 2.3 4.1	1 2.3 4.2	1 2.5 4.2	1 2.8 4.0	1 2.6 4.1	1 2.6 4.2	1 3.0 4.0	1 3.0 4.3	*Z*
												Feb. 18
1 1.9 5.3	1 2.4 5.4	1 2.2 5.5	1 1.6 5.7	1 1.6 5.3	1 1.7 5.5	1 1.5 5.3	3 1.5 5.4	3 1.4 5.3	3 1.4 4.5	2 1.3 4.5	2 1.3 4.7	*N*
3 2.0 4.7	1 1.9 5.5	1 1.7 5.3	3 1.5 5.1	3 1.5 5.2	3 1.5 4.7	3 1.5 5.0	3 1.4 4.7	3 1.4 4.8	3 1.5 4.8	3 1.5 4.2	2 1.4 4.2	*E*
1 2.0 5.4	1 2.0 5.3	1 1.9 4.8	1 1.4 5.4	1 1.5 4.8	1 1.5 4.8	1 1.5 5.2	1 1.4 5.5	3 1.5 4.8	3 1.5 4.7	3 1.2 4.5	2 1.2 4.4	*Z*
												Feb. 19
2 1.0 4.5	2 1.2 4.0	2 1.2 4.1	2 1.0 4.8	2 1.0 4.6	2 0.9 4.5	2 1.0 4.7	2 0.9 4.7	2 0.9 5.0	2 0.8 4.7	2 0.8 4.4	2 0.8 4.5	*N*
2 1.0 4.4	2 0.9 4.7	2 1.2 4.2	2 0.9 4.8	2 0.9 4.2	2 0.9 4.5	2 0.9 4.5	2 1.0 4.5	2 1.0 4.3	2 1.0 4.2	2 0.8 4.6	2 0.9 4.7	*E*
2 0.8 4.4	2 0.8 5.2	2 0.8 4.7	2 0.8 4.8	2 0.7 4.8	2 0.8 4.5	2 0.7 4.7	2 0.6 5.2	2 0.7 4.9	2 0.7 4.3	2 0.7 4.6	2 0.6 4.5	*Z*
												Feb. 26
2 1.1 2.5	2 1.1 2.6	2 1.0 3.1	2 1.0 2.7	2 1.2 2.8	2 1.2 2.7	2 1.2 2.5	2 1.1 3.0	2 1.1 2.8	2 1.1 3.0	2 1.1 2.8	2 1.1 2.7	*N*
2 0.8 2.8	2 0.8 2.7	2 0.8 2.9	2 0.9 2.5	2 0.8 2.4	2 0.8 2.4	2 0.8 2.7	2 0.9 2.3	2 0.8 2.5	2 0.7 2.5	2 0.6 2.7	2 0.6 2.3	*E*
2 0.7 2.8	2 0.7 2.8	2 0.7 2.7	2 0.7 2.7	2 0.6 2.9	2 0.6 3.5	2 0.6 3.2	2 0.6 3.3	2 0.4 3.2	2 0.4 3.0	2 0.3 3.4	2 0.3 3.1	*Z*
												March 17
2 0.7 4.8	2 0.6 4.8	2 0.6 4.7	2 0.7 4.5	2 0.7 4.3	2 0.7 4.4	2 0.8 4.5	2 0.7 4.4	2 0.7 4.6	2 0.7 4.5	2 0.7 4.5	2 0.7 4.7	*N*
1 0.8 4.3	1 0.7 4.5	1 0.6 4.3	1 0.6 4.5	1 0.6 4.4	1 0.6 4.8	1 0.6 5.2	1 0.6 4.9	1 0.6 5.0	1 0.6 4.9	1 0.7 5.0	1 0.7 4.8	*E*
2 0.5 4.2	2 0.5 4.6	2 0.5 4.8	2 0.6 4.5	2 0.6 4.4	2 0.6 4.5	2 0.6 4.2	2 0.5 4.5	2 0.5 4.8	2 0.5 4.5	2 0.5 4.4	2 0.5 4.8	*Z*
												March 18
2 0.4 4.2	2 0.4 4.3	2 0.4 4.4	2 0.4 4.2	2 0.4 4.1	2 0.4 4.0	2 0.4 3.8	2 0.4 3.9	2 0.4 4.3	2 0.4 4.1	2 0.4 4.3	2 0.4 4.2	*N*
2 0.5 4.1	2 0.5 4.4	2 0.5 4.3	2 0.5 4.3	2 0.4 4.5	2 0.4 4.5	2 0.4 4.6	2 0.4 3.9	2 0.4 4.2	2 0.4 4.1	2 0.4 4.6	2 0.4 4.4	*E*
2 0.3 4.5	2 0.3 4.6	2 0.3 4.4	2 0.3 4.3	2 0.3 4.6	2 0.3 4.6	2 0.3 4.8	2 0.3 4.5	2 0.3 4.4	2 0.3 4.5	2 0.3 4.3	2 0.3 4.2	*Z*
												March 19
2 0.5 3.9	2 0.4 3.7	2 0.4 3.6	2 0.4 3.3	2 0.5 3.0	2 0.5 3.2	2 0.6 3.4	2 0.5 3.3	2 0.6 3.7	2 0.5 3.2	2 0.5 3.6	2 0.5 3.4	*N*
2 0.4 3.7	2 0.4 3.6	2 0.4 3.7	2 0.4 3.2	2 0.4 3.5	2 0.4 3.5	2 0.4 3.2	2 0.4 3.3	2 0.4 3.6	2 0.4 3.7	2 0.4 3.2	2 0.4 3.3	*E*
2 0.3 3.5	2 0.3 3.8	2 0.3 4.0	2 0.3 4.0	2 0.3 4.2	2 0.3 4.0	2 0.3 4.2	2 0.3 4.1	2 0.3 3.6	2 0.3 3.9	2 0.3 3.7	2 0.4 3.4	*Z*
												March 20
2 0.7 3.9	2 0.5 4.0	2 0.6 3.8	2 0.6 4.0	2 0.6 3.0	2 0.6 3.7	2 0.6 4.7	2 0.7 3.7	2 0.6 3.2	2 0.6 3.3	2 0.6 3.8	2 0.6 4.0	*N*
2 0.6 3.5	2 0.5 3.2	2 0.5 3.5	2 0.5 3.5	2 0.5 3.6	2 0.5 3.7	2 0.6 3.7	2 0.5 3.2	2 0.5 3.7	2 0.5 3.8	2 0.5 3.8	2 0.5 3.4	*E*
2 0.4 3.9	2 0.4 4.2	2 0.3 4.0	2 0.4 4.3	2 0.4 4.3	2 0.4 3.7	2 0.3 4.5	2 0.3 4.4	2 0.3 4.5	2 0.4 4.0	2 0.4 4.0	2 0.4 4.0	*Z*

1958	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h
March 21												
N	2 0.6 4.1	2 0.5 4.4	2 0.5 4.0	2 0.4 3.8	2 0.4 4.5	2 0.4 4.2	2 0.4 4.0	2 0.5 4.2	2 0.5 4.4	2 0.5 4.1	2 0.5 4.3	2 0.5 4.3
E	2 0.6 4.5	2 0.6 4.2	2 0.6 4.3	2 0.5 4.4	2 0.5 4.4	2 0.5 4.3	2 0.5 4.0	2 0.5 4.0	2 0.5 4.1	2 0.5 4.0	2 0.5 4.4	2 0.5 4.4
Z	2 0.4 4.0	2 0.3 4.1	2 0.3 4.0	2 0.4 4.5	2 0.4 4.4	2 0.4 4.2	2 0.4 4.0	2 0.4 4.1	2 0.4 4.2	2 0.4 4.0	2 0.4 4.3	2 0.4 4.3
March 22												
N	2 0.6 4.7	2 0.6 4.4	2 0.6 4.5	2 0.6 4.4	2 0.6 4.0	2 0.6 4.1	2 0.7 3.8	2 0.7 4.0	2 0.7 4.1	2 0.7 4.2	2 0.7 4.3	.. ..
E	2 0.7 4.3	2 0.7 4.5	2 0.7 4.6	2 0.7 4.2	2 0.7 4.3	2 0.7 4.2	2 0.7 4.2	2 0.7 4.3	2 0.7 4.6	2 0.8 4.7	2 0.7 4.4	.. ..
Z	2 0.5 4.3	2 0.6 4.2	2 0.6 4.3	2 0.6 4.3	2 0.6 4.5	2 0.6 4.6	2 0.6 4.5	2 0.6 4.4	2 0.6 4.4	2 0.6 4.3	2 0.6 4.4	.. ..
March 23												
N	2 0.8 4.8	2 0.7 4.6	2 0.7 4.7	2 0.7 4.6	2 0.7 4.8	2 0.6 4.6	2 0.6 4.5	2 0.6 4.5	2 0.5 4.7	2 0.5 4.4	2 0.5 4.3	2 0.5 4.2
E	2 0.7 4.7	2 0.7 4.6	2 0.7 4.6	2 0.7 4.7	2 0.7 4.6	2 0.6 4.7	2 0.6 4.7	2 0.6 4.5	2 0.6 4.6	2 0.6 4.5	2 0.6 4.4	2 0.5 4.5
Z	2 0.6 4.5	2 0.6 4.6	2 0.6 4.6	2 0.5 4.4	2 0.5 4.5	2 0.5 4.3	2 0.4 4.4	2 0.4 4.4	2 0.4 4.6	2 0.5 4.5	2 0.5 4.5	2 0.5 4.3
March 24												
N	2 0.6 4.8	2 0.6 4.6	2 0.7 4.5	2 0.7 4.6	2 0.7 4.6	2 0.8 4.7	2 0.7 4.7	2 0.7 4.6	2 0.7 4.8	2 0.7 4.5	2 0.7 4.6	2 0.7 4.7
E	2 0.8 5.1	2 0.9 4.9	2 0.9 4.9	2 1.0 4.9	2 0.9 4.6	2 1.0 5.0	2 1.0 4.6	2 1.0 5.1	2 0.9 4.9	2 0.7 4.6	2 0.9 4.7	2 0.8 4.6
Z	1 0.7 4.5	1 0.7 4.6	1 0.6 4.5	1 0.7 4.4	1 0.7 4.8	1 0.7 4.8	1 0.7 4.7	1 0.7 4.7	1 0.7 4.8	2 0.7 4.6	2 0.6 4.5	2 0.6 4.7
March 25												
N	2 0.7 4.3	2 0.7 4.4	2 0.8 4.5	2 0.8 4.5	2 0.8 4.7	2 0.8 4.5	2 0.8 4.4	2 0.9 4.8	2 0.9 4.6	1 0.8 4.5	1 0.8 4.4	1 0.8 4.3
E	2 0.9 4.6	1 0.9 4.8	1 0.9 4.6	1 1.0 4.7	1 1.0 4.6	1 1.0 4.6	1 1.0 4.5	1 1.1 4.5	1 1.1 4.6	1 1.1 4.6	1 1.0 4.5	1 1.0 4.4
Z	2 0.7 4.4	2 0.7 4.5	1 0.8 4.6	1 0.8 4.5	1 0.8 4.4	1 0.8 4.5	1 0.8 4.5	1 0.9 4.6	1 0.9 4.4	1 0.8 4.3	1 0.9 4.4	1 0.9 4.5
March 26												
N	1 0.9 4.3	1 0.8 4.4	1 0.7 4.5	1 0.7 4.4	1 0.8 4.5	2 0.7 4.2	2 0.7 4.3	2 0.6 4.4	2 0.6 4.4	2 0.5 4.4	2 0.5 4.3	2 0.5 4.3
E	1 0.9 4.3	1 0.9 4.4	1 0.8 4.5	1 0.8 4.5	1 0.9 4.5	1 0.9 4.4	1 0.8 4.1	1 0.7 4.3	1 0.7 4.4	1 0.7 4.6	1 0.7 4.5	1 0.7 4.4
Z	1 0.8 4.5	1 0.8 4.4	1 0.8 4.3	1 0.9 4.6	1 0.8 4.4	1 0.8 4.3	1 0.8 4.3	1 0.7 4.2	1 0.7 4.5	1 0.6 4.3	1 0.5 4.7	2 0.5 4.5
March 28												
N	3 0.6 4.0	3 0.6 4.1	3 0.6 3.8	3 0.6 3.8	3 0.6 3.9	3 0.6 3.7	3 0.6 3.8	3 0.6 3.9	3 0.6 3.8	3 0.6 3.8	3 0.6 3.6	3 0.6 3.7
E	3 0.8 3.7	3 0.9 3.8	3 0.8 3.9	3 0.8 4.0	3 0.8 4.0	3 0.8 3.7	3 0.8 3.5	3 0.8 3.7	3 0.9 3.9	3 0.8 3.7	3 1.0 3.8	3 1.0 3.6
Z	3 0.7 3.8	3 0.6 3.7	3 0.7 3.9	3 0.6 3.7	3 0.6 3.9	3 0.6 3.8	3 0.7 4.0	3 0.7 3.8	3 0.7 3.9	3 0.7 3.7	3 0.7 3.8	3 0.7 3.7
April 18												
N	2 0.4 4.5	2 0.3 4.6	2 0.3 4.9	2 0.3 4.5	2 0.3 4.4	2 0.3 4.5	2 0.4 4.3	2 0.3 4.5	2 0.3 4.6	2 0.3 4.6	2 0.3 4.4	2 0.3 4.4
E	2 0.4 4.2	2 0.4 4.5	2 0.4 4.6	2 0.4 4.6	2 0.4 4.5	2 0.4 4.6	2 0.3 4.5	2 0.3 4.5	2 0.4 4.6	2 0.4 4.6	2 0.4 4.2	2 0.4 4.1
Z	2 0.3 4.8	2 0.3 4.7	2 0.3 4.7	2 0.3 4.4	2 0.3 4.4	2 0.3 4.3	2 0.3 4.5	2 0.3 4.4	2 0.3 4.3	2 0.3 4.5	2 0.2 4.6	2 0.2 4.3
April 19												
N	2 0.4 3.7	2 0.4 3.8	2 0.3 3.8	2 0.3 3.7	2 0.3 3.6	.. ..	2 0.4 4.2	2 0.3 3.7	2 0.3 3.8	2 0.3 3.8	2 0.3 3.5	2 0.3 3.3
E	2 0.4 4.1	2 0.4 3.8	2 0.4 3.9	2 0.4 4.0	2 0.3 3.8	.. ..	2 0.3 3.8	2 0.3 3.8	2 0.3 3.9	2 0.3 3.9	2 0.3 3.6	2 0.3 3.5
Z	2 0.2 4.3	2 0.3 3.9	2 0.3 4.0	2 0.3 4.0	2 0.3 4.1	.. ..	2 0.2 4.6	2 0.2 4.0	2 0.2 3.9	2 0.2 3.7	2 0.3 3.7	2 0.3 3.5
April 20												
N	2 0.4 3.3	2 0.3 3.6	2 0.3 3.4	2 0.3 3.6	2 0.3 3.6	2 0.3 3.7	2 0.3 3.2	2 0.3 3.5	2 0.3 3.4	2 0.3 3.5	2 0.3 3.6	2 0.4 3.8
E	2 0.4 3.9	2 0.3 3.8	2 0.3 4.1	2 0.3 4.0	2 0.3 4.2	2 0.3 3.9	2 0.4 4.0	2 0.3 4.1	2 0.3 4.0	2 0.3 3.8	2 0.3 3.7	2 0.3 3.7
Z	2 0.3 4.3	2 0.3 4.0	2 0.3 4.1	2 0.3 3.9	2 0.3 4.1	2 0.3 4.2	2 0.3 4.0	2 0.3 4.0	2 0.3 3.8	2 0.3 3.7	2 0.3 3.8	2 0.3 3.8
May 5												
N	3 0.5 3.7	3 0.4 3.6	3 0.4 3.7	3 0.5 3.7	3 0.5 3.4	3 0.4 3.7	3 0.4 4.–	3 0.4 4.–	3 0.4 3.8	2 0.3 3.9	2 0.3 4.2	2 0.3 4.0
E	3 0.4 3.–	3 0.3 3.2	3 0.3 3.5	3 0.4 3.4	3 0.4 3.7	3 0.4 4.–	3 0.5 4.–	3 0.4 4.–	3 0.4 3.5	3 0.3 3.6	3 0.3 3.7	3 0.3 3.6
Z	3 0.4 3.–	3 0.4 3.6	3 0.4 3.5	3 0.4 3.7	3 0.4 3.6	3 0.4 3.4	3 0.5 3.5	3 0.4 3.7	3 0.4 3.9	3 0.4 3.8	3 0.4 3.7	3 0.3 4.0
May 18												
N	3 0.7 2.4	3 0.5 3.0	3 0.5 2.8	.. ..	.. ..	.. ..	3 0.7 3.2	3 0.6 3.6	3 0.6 3.5	3 0.6 3.6	3 0.6 3.3	.. ..
E	3 0.5 2.5	3 0.5 3.2	3 0.5 3.3	.. ..	.. ..	.. ..	3 0.6 3.–	3 0.6 3.5	3 0.6 3.7	.. ..	3 0.6 3.4	3 0.7 3.3
Z	3 0.5 2.6	3 0.5 3.0	3 0.5 2.8	.. ..	.. ..	.. ..	3 0.7 3.0	3 0.6 3.4	3 0.6 3.5	3 0.6 3.7	3 0.6 3.5	3 0.6 3.7

12h	13h	14h	15h	16h	17h	18h	19h	20h	21h	22h	23h	1958
												March 21
2 0.5 4.1	2 0.5 4.0	2 0.5 4.5	2 0.5 4.5	2 0.5 3.8	2 0.5 4.1	2 0.5 4.2	2 0.5 4.5	2 0.6 4.1	2 0.6 4.1	2 0.6 4.0	2 0.6 4.5	*N*
2 0.6 3.7	2 0.6 4.0	2 0.6 4.1	2 0.6 4.4	2 0.6 4.1	2 0.6 4.3	2 0.6 4.2	2 0.6 4.4	2 0.6 4.0	2 0.6 4.1	2 0.6 4.4	2 0.6 4.3	*E*
2 0.4 4.0	2 0.4 4.3	2 0.4 4.2	2 0.4 4.3	2 0.4 4.3	2 0.4 4.2	2 0.4 4.4	2 0.5 4.3	2 0.5 4.0	2 0.5 4.2	2 0.5 4.2	2 0.5 4.3	*Z*
												March 22
.. ..	2 0.8 4.7	2 0.8 4.8	2 0.8 4.9	2 0.7 4.8	2 0.8 4.9	2 0.8 4.7	2 0.8 4.8	2 0.8 4.8	2 0.8 4.8	2 0.8 4.4	2 0.7 4.6	*N*
.. ..	2 0.7 4.6	2 0.8 4.8	2 0.8 4.7	2 0.8 4.6	2 0.8 4.6	2 0.8 4.8	2 0.8 4.6	2 0.8 4.9	2 0.8 4.7	2 0.8 4.4	2 0.8 4.5	*E*
.. ..	2 0.7 4.5	2 0.7 4.6	2 0.7 4.6	2 0.7 4.8	2 0.6 4.8	2 0.6 4.7	2 0.7 4.9	2 0.7 4.6	2 0.7 4.4	2 0.7 4.3	2 0.6 4.3	*Z*
												March 23
2 0.5 4.3	2 0.5 4.3	2 0.5 4.6	2 0.5 4.5	2 0.5 4.5	2 0.6 4.7	2 0.6 4.6	2 0.6 4.7	2 0.6 4.5	2 0.6 4.7	2 0.6 4.8	2 0.6 4.7	*N*
2 0.6 4.5	2 0.6 4.4	2 0.6 4.4	2 0.6 4.5	2 0.6 4.6	2 0.8 4.7	2 0.8 4.6	2 0.8 4.7	2 0.7 4.6	2 0.8 4.8	2 0.8 4.7	2 0.8 4.9	*E*
2 0.6 4.4	2 0.5 4.3	2 0.5 4.3	2 0.5 4.4	2 0.5 4.4	2 0.6 4.6	2 0.6 4.8	2 0.6 4.5	2 0.6 4.3	2 0.6 4.7	1 0.7 4.8	1 0.7 4.8	*Z*
												March 24
2 0.7 4.7	2 0.7 4.6	2 0.7 4.5	2 0.7 4.4	2 0.7 4.5	2 0.7 4.5	2 0.8 4.5	2 0.6 4.5	2 0.6 4.5	2 0.6 4.4	2 0.6 4.5	2 0.7 4.5	*N*
2 0.7 4.9	1 0.8 4.6	1 0.8 4.8	1 0.8 4.7	1 0.8 4.8	1 0.8 4.8	1 0.8 4.5	1 0.8 4.6	1 0.9 4.7	1 0.9 4.7	1 0.9 4.8	1 0.8 4.6	*E*
2 0.6 4.7	2 0.6 4.6	2 0.6 4.8	2 0.6 4.6	2 0.6 4.6	2 0.6 4.5	2 0.6 4.7	2 0.6 4.6	2 0.6 4.7	2 0.6 4.6	2 0.6 4.7	2 0.6 4.5	*Z*
												March 25
1 0.9 4.5	1 0.9 4.7	1 0.8 4.4	1 0.8 4.5	1 0.8 4.3	1 0.8 4.6	1 0.9 4.7	1 0.8 4.6	1 0.8 4.5	1 0.8 4.3	1 0.8 4.4	1 0.8 4.5	*N*
1 1.0 4.2	1 1.0 4.6	1 1.1 4.5	1 0.9 4.5	1 0.8 4.3	1 1.0 4.6	1 1.0 4.2	1 1.0 4.3	1 1.1 4.5	1 0.9 4.3	1 1.0 4.6	1 0.9 4.4	*E*
1 0.9 4.2	1 0.9 4.3	1 0.9 4.4	1 0.9 4.6	1 0.8 4.4	1 0.9 4.5	1 0.8 4.5	1 0.9 4.4	1 0.8 4.5	1 0.8 4.5	1 0.8 4.5	1 0.9 4.5	*Z*
												March 26
2 0.6 4.0	2 0.5 4.1	2 0.5 4.0	2 0.5 4.1	2 0.5 4.3	2 0.5 4.0	2 0.5 3.9	2 0.5 4.0	2 0.5 4.0	2 0.5 3.9	2 0.5 3.8	2 0.5 3.8	*N*
1 0.7 4.1	1 0.6 4.3	1 0.7 4.1	2 0.6 4.4	2 0.5 4.1	2 0.5 4.0	2 0.6 4.0	2 0.5 3.8	2 0.5 3.9	2 0.5 4.0	2 0.5 4.1	2 0.5 3.9	*E*
2 0.5 4.4	2 0.5 4.5	2 0.5 4.4	2 0.5 4.2	2 0.5 4.3	2 0.5 4.1	2 0.5 3.9	2 0.5 3.9	2 0.5 4.0	2 0.5 4.1	2 0.5 3.8	2 0.5 3.9	*Z*
												March 28
3 0.6 3.5	3 0.6 3.6	3 0.6 3.5	3 0.6 3.4	3 0.6 3.6	3 0.6 3.7	3 0.7 3.8	3 0.6 3.8	3 0.6 3.4	3 0.6 3.5	3 0.6 3.6	3 0.6 3.4	*N*
2 0.8 3.8	3 0.9 3.8	3 0.8 3.8	3 0.8 3.6	3 0.9 3.7	3 0.9 3.6	3 0.8 3.5	3 0.9 3.4	3 0.9 3.8	3 0.9 3.6	3 0.9 3.7	3 0.9 3.8	*E*
3 0.7 3.6	3 0.7 3.7	3 0.7 3.6	3 0.7 3.5	3 0.7 3.8	3 0.7 3.6	3 0.7 3.4	3 0.7 3.5	3 0.8 3.7	3 0.8 3.6	3 0.8 3.7	3 0.7 3.6	*Z*
												April 18
2 0.4 4.1	2 0.3 4.2	2 0.3 4.3	2 0.3 4.0	2 0.3 4.0	2 0.3 3.8	2 0.4 4.1	2 0.3 3.8	2 0.3 3.7	2 0.3 3.9	2 0.3 3.9	2 0.3 4.0	*N*
2 0.4 4.5	2 0.4 4.2	2 0.4 4.3	2 0.4 4.1	2 0.4 4.0	2 0.4 4.0	2 0.4 4.0	2 0.4 3.9	2 0.5 3.9	2 0.4 4.0	2 0.4 4.1	2 0.4 3.8	*E*
2 0.2 4.5	2 0.3 4.2	2 0.3 4.5	2 0.3 4.4	2 0.4 4.2	2 0.4 3.9	2 0.3 4.0	2 0.3 3.8	2 0.4 3.9	2 0.3 4.0	2 0.3 3.8	2 0.3 3.8	*Z*
												April 19
2 0.4 3.6	2 0.3 3.4	2 0.3 3.2	2 0.3 3.4	3 0.3 3.5	2 0.3 3.4	2 0.4 2.8	2 0.3 3.2	2 0.3 3.4	2 0.3 3.5	2 0.3 3.4	2 0.3 3.4	*N*
2 0.4 3.4	2 0.3 3.6	2 0.3 3.4	2 0.3 3.6	2 0.3 3.3	2 0.3 3.5	2 0.4 3.6	2 0.3 3.8	2 0.3 3.7	2 0.3 3.7	2 0.3 3.8	2 0.3 3.6	*E*
2 0.3 4.3	2 0.3 3.8	2 0.3 3.7	2 0.3 3.6	2 0.3 3.6	2 0.3 3.6	2 0.3 3.9	2 0.3 3.5	2 0.3 3.4	2 0.3 3.4	2 0.3 3.6	2 0.3 4.1	*Z*
												April 20
2 0.4 3.6	2 0.4 3.7	2 0.4 3.5	2 0.4 3.6	2 0.4 3.7	2 0.5 3.4	2 0.5 3.5	2 0.5 3.6	2 0.7 4.0	2 0.7 4.3	2 0.6 4.4	2 0.7 4.5	*N*
2 0.4 3.6	2 0.4 3.9	2 0.4 3.8	2 0.4 4.0	2 0.4 3.8	2 0.4 3.9	2 0.4 4.1	2 0.5 3.9	2 0.6 4.0	2 0.7 4.2	2 0.8 4.6	2 0.8 4.5	*E*
2 0.3 4.0	2 0.3 4.1	2 0.3 4.2	2 0.3 4.3	2 0.3 4.2	2 0.3 4.4	2 0.3 4.5	2 0.4 4.6	2 0.6 4.6	2 0.7 4.7	2 0.6 4.4	2 0.8 4.7	*Z*
												May 5
2 0.4 4.0	2 0.3 4.2	2 0.3 4.0	2 0.3 4.1	2 0.3 3.9	2 0.3 3.9	2 0.4 4.–	2 0.3 4.0	2 0.3 4.1	2 0.2 4.3	2 0.2 4.3	2 0.2 4.4	*N*
2 0.4 3.5	2 0.3 3.7	2 0.3 3.7	2 0.3 3.9	2 0.3 4.0	2 0.3 4.1	2 0.4 4.0	2 0.3 4.1	2 0.2 4.3	2 0.2 4.3	2 0.2 4.4	2 0.2 4.5	*E*
3 0.3 4.–	3 0.3 3.8	3 0.3 3.9	3 0.3 4.1	3 0.4 4.1	3 0.3 3.9	3 0.3 4.–	3 0.3 4.0	3 0.3 4.1	2 0.2 4.4	2 0.2 4.5	2 0.2 4.3	*Z*
												May 18
3 0.8 3.3	.. ..	.. ..	3 0.6 3.3	3 0.5 3.2	3 0.5 3.1	3 0.6 2.8	3 0.5 3.3	3 0.5 3.3	3 0.4 3.5	3 0.4 3.5	3 0.4 3.8	*N*
3 0.7 3.2	.. ..	.. ..	3 0.6 3.2	3 0.6 3.5	3 0.6 3.5	3 0.6 3.6	3 0.6 3.5	3 0.5 3.4	3 0.5 3.6	3 0.5 3.7	3 0.5 3.5	*E*
3 0.7 3.5	.. ..	.. ..	3 0.6 3.3	3 0.6 3.4	3 0.6 3.6	3 0.6 3.8	3 0.6 3.4	3 0.6 3.3	3 0.6 3.1	3 0.5 3.7	3 0.5 3.4	*Z*

1958	0^{h}	1^{h}	2^{h}	3^{h}	4^{h}	5^{h}	6^{h}	7^{h}	8^{h}	9^{h}	10^{h}	11^{h}
May 19												
N	3 0.4 3.7	3 0.4 3.6	3 0.4 3.8	3 0.4 3.7	3 0.4 3.8	3 0.4 3.6	3 0.6 3.6	3 0.4 3.4	3 0.4 3.7	3 0.4 4.0	3 0.3 4.1	3 0.4 4.1
E	3 0.5 3.3	3 0.5 3.6	3 0.6 3.6	3 0.5 3.4	3 0.5 3.7	3 0.5 3.7	3 0.5 3.5	3 0.5 3.8	3 0.5 3.9	3 0.4 4.1	3 0.4 3.9	3 0.4 4.2
Z	3 0.5 3.2	3 0.5 3.3	3 0.5 3.4	3 0.5 3.2	3 0.5 3.0	3 0.5 3.1	3 0.6 3.0	3 0.6 3.2	3 0.5 3.5	3 0.5 3.6	3 0.5 3.8	3 0.5 4.0
June 9												
N	2 0.5 3.7	2 0.4 3.6	2 0.4 3.7	2 0.4 3.6	2 0.4 3.3	2 0.4 3.5	2 0.5 3.6	2 0.4 3.6	2 0.4 3.5	2 0.4 3.4	2 0.4 3.5	2 0.5 3.4
E	2 0.3 3.5	2 0.4 3.6	2 0.4 3.8	2 0.4 3.7	2 0.4 3.6	2 0.4 3.5	3 0.4 3.2	2 0.4 3.3	2 0.4 3.6	2 0.4 3.5	2 0.4 3.4	2 0.4 3.6
Z	2 0.4 3.9	2 0.3 3.7	2 0.3 3.7	2 0.3 3.5	2 0.3 3.4	2 0.3 3.6	2 0.4 3.2	2 0.4 3.4	2 0.4 3.5	2 0.4 3.6	2 0.5 3.8	2 0.5 3.6
June 15												
N	3 0.3 5.5	2 0.3 5.6	2 0.3 5.8	2 0.3 5.4	2 0.3 5.5	2 0.4 5.8	3 0.4 6.0	2 0.3 5.7	2 0.3 5.6	2 0.3 5.7	2 0.3 5.4	2 0.3 5.5
E	3 0.4 4.5	3 0.3 5.5	3 0.3 5.4	3 0.3 4.8	3 0.3 5.2	3 0.3 5.5	3 0.4 4.7	3 0.3 4.9	3 0.3 5.3	3 0.3 5.2	2 0.3 5.1	2 0.3 5.3
Z	3 0.3 4.6	2 0.3 5.2	2 0.3 5.4	2 0.3 5.3	2 0.4 5.6	2 0.3 5.5	2 0.4 5.5	2 0.4 5.3	2 0.3 5.4	2 0.3 5.4	2 0.3 5.2	2 0.3 5.3
June 16												
N	2 0.4 5.2	2 0.3 4.9	2 0.3 5.0	2 0.3 4.7	2 0.3 5.1	2 0.3 5.0	2 0.4 5.4	2 0.3 5.0	2 0.3 4.9	2 0.2 5.1	2 0.2 5.0	2 0.2 5.4
E	2 0.3 4.8	2 0.3 4.9	2 0.3 4.9	2 0.5 5.0	2 0.3 4.9	2 0.3 5.1	2 0.3 4.8	2 0.3 5.1	2 0.3 5.2	2 0.2 5.3	2 0.2 5.1	2 0.2 5.2
Z	2 0.3 4.3	2 0.2 4.8	2 0.3 4.6	2 0.3 4.5	2 0.2 4.6	2 0.3 4.3	2 0.2 4.3	2 0.3 4.4	2 0.3 4.5	2 0.2 5.2	2 0.2 4.8	2 0.2 5.1
June 17												
N	2 0.2 5.5	2 0.2 5.3	2 0.2 5.0	2 0.2 5.1	2 0.2 5.4	2 0.2 5.0	2 0.2 5.1	2 0.2 5.3	2 0.2 5.3	2 0.2 5.0	2 0.2 5.2	2 0.2 4.9
E	2 0.2 5.0	2 0.2 5.3	2 0.2 5.2	2 0.2 5.0	2 0.2 5.1	2 0.2 5.0	2 0.2 5.2	2 0.2 5.1	2 0.2 5.4	2 0.2 5.2	2 0.2 4.9	2 0.2 5.0
Z	2 0.2 4.8	2 0.2 5.0	2 0.2 4.9	2 0.2 5.2	2 0.2 5.0	2 0.2 4.9	2 0.2 4.7	2 0.2 5.0	2 0.2 5.2	2 0.2 4.9	2 0.2 5.0	2 0.2 4.8
June 18												
N	3 0.4 2.4	3 0.3 2.5	.. ..	3 0.3 2.2	3 0.3 2.5	.. ..	3 0.3 2.0	3 0.3 2.1	3 0.3 1.9	3 0.3 2.2	3 0.3 2.5	3 0.3 2.3
E	3 0.2 2.5	3 0.3 2.4	.. ..	3 0.3 2.5	3 0.3 3.0	.. ..	3 0.3 1.7	2 0.3 2.0	3 0.3 2.4	3 0.3 2.5	3 0.3 2.4	3 0.3 2.3
Z	3 0.2 2.5	3 0.2 2.8	.. ..	3 0.3 2.3	3 0.3 3.2	.. ..	3 0.3 2.1	3 0.3 2.2	3 0.3 2.5	3 0.3 2.4	3 0.3 2.3	3 0.3 2.1
June 19												
N	3 0.5 2.5	2 0.4 2.6	2 0.4 2.4	2 0.4 2.7	2 0.4 2.5	2 0.4 2.6	.. ..	3 0.5 2.6	3 0.5 2.3	.. ..	.. ..	2 0.5 2.3
E	3 0.4 2.3	2 0.4 2.4	2 0.4 2.3	2 0.4 2.4	2 0.4 2.4	2 0.4 2.5	.. ..	2 0.4 2.6	2 0.5 2.5	.. ..	.. ..	3 0.3 2.4
Z	3 0.4 2.8	3 0.4 2.7	3 0.4 2.5	3 0.4 2.8	3 0.4 2.6	3 0.5 2.3	.. ..	3 0.5 2.4	3 0.5 2.5	.. ..	.. ..	3 0.5 2.7
June 20												
N	3 0.5 2.8	2 0.4 3.0	2 0.4 3.1	2 0.4 3.5	2 0.3 3.4	2 0.3 4.0	2 0.4 4.0	2 0.3 4.2	2 0.3 4.4	2 0.2 4.2	2 0.2 4.4	2 0.2 4.3
E	3 0.2 2.6	2 0.3 2.8	2 0.3 3.2	2 0.3 3.4	2 0.3 3.4	2 0.3 4.2	2 0.2 3.7	2 0.3 3.9	2 0.3 4.1	2 0.3 4.4	2 0.2 4.2	2 0.2 4.3
Z	3 0.3 2.7	2 0.4 2.6	2 0.3 3.0	2 0.3 3.3	2 0.3 3.5	2 0.3 3.9	2 0.3 4.2	2 0.3 4.4	2 0.3 4.2	2 0.3 4.5	2 0.2 4.3	2 0.2 4.2
June 21												
N	2 0.2 4.2	2 0.2 4.1	2 0.2 4.3	2 0.2 4.2	2 0.2 4.0	2 0.2 4.1	2 0.3 4.1	2 0.2 4.2	2 0.2 4.1	2 0.2 4.1	2 0.2 4.2	2 0.2 4.0
E	2 0.3 3.8	2 0.2 3.9	2 0.2 4.2	2 0.2 4.3	2 0.2 4.1	2 0.2 4.0	2 0.2 4.1	2 0.2 4.3	2 0.2 4.1	2 0.2 4.2	2 0.3 4.0	2 0.3 4.2
Z	2 0.2 4.5	2 0.2 4.3	2 0.2 4.4	2 0.2 4.4	2 0.2 4.4	2 0.2 4.4	2 0.2 4.4	2 0.2 4.4	2 0.2 4.3	2 0.2 4.4	2 0.2 4.1	2 0.2 4.3
June 22												
N	2 0.3 4.4	3 0.3 4.1	3 0.4 3.3	3 0.4 2.9	3 0.4 3.0	3 0.4 3.0	3 0.5 2.4	3 0.4 2.7	3 0.4 2.6	3 0.4 2.8	3 0.4 3.1	2 0.4 2.8
E	2 0.3 4.1	3 0.3 3.9	3 0.3 3.3	3 0.4 2.8	3 0.4 2.7	3 0.4 2.7	3 0.3 2.5	3 0.4 3.0	3 0.4 3.1	3 0.4 3.0	3 0.4 3.1	2 0.3 2.4
Z	3 0.2 4.2	3 0.3 4.0	3 0.3 3.5	3 0.3 3.1	3 0.4 2.8	3 0.4 2.8	3 0.4 2.6	3 0.4 2.9	3 0.4 3.2	3 0.4 3.3	3 0.4 3.0	3 0.4 2.5
June 23												
N	2 0.4 4.0	2 0.3 4.2	2 0.3 3.9	2 0.3 3.8	2 0.3 4.1	2 0.3 4.2	.. ..	2 0.3 4.0	2 0.3 3.9	2 0.3 4.1	2 0.3 4.2	2 0.3 3.9
E	3 0.3 4.1	2 0.3 4.0	2 0.3 4.0	2 0.3 3.9	2 0.3 3.9	2 0.3 4.2	.. ..	2 0.4 4.1	2 0.4 4.1	2 0.4 4.0	2 0.4 3.9	2 0.4 4.2
Z	2 0.2 3.6	2 0.3 3.5	2 0.2 3.8	2 0.2 4.0	2 0.3 4.0	2 0.3 4.1	.. ..	2 0.3 4.2	2 0.3 4.0	2 0.3 4.2	2 0.3 4.1	2 0.3 4.0
June 24												
N	2 0.5 3.9	2 0.3 4.0	2 0.3 4.2	2 0.3 4.1	2 0.3 4.0	.. ..	2 0.5 4.3	2 0.3 4.1	.. ..	2 0.3 4.1	2 0.3 4.2	2 0.3 4.3
E	2 0.3 4.2	2 0.3 4.2	2 0.3 4.5	2 0.3 4.3	2 0.3 4.1	.. ..	2 0.3 4.0	2 0.3 4.2	.. ..	2 0.3 4.3	2 0.3 4.0	2 0.3 4.1
Z	2 0.3 4.0	2 0.3 4.1	2 0.3 4.0	2 0.3 3.9	2 0.3 4.2	.. ..	2 0.3 4.2	2 0.3 4.2	.. ..	2 0.3 4.3	2 0.3 4.2	2 0.3 4.4

12^{h}	13^{h}	14^{h}	15^{h}	16^{h}	17^{h}	18^{h}	19^{h}	20^{h}	21^{h}	22^{h}	23^{h}	1958
												May 19
3 0.5 4.3	3 0.4 4.3	3 0.4 4.5	3 0.4 4.4	3 0.4 4.6	3 0.4 4.5	3 0.5 4.2	3 0.4 4.4	2 0.5 4.5	2 0.5 4.6	2 0.6 4.5	2 0.6 4.6	N
3 0.5 4.0	3 0.4 4.1	2 0.4 4.3	2 0.4 4.3	2 0.5 4.3	2 0.4 4.4	2 0.5 4.6	2 0.4 4.4	2 0.5 4.5	2 0.5 4.6	2 0.6 4.5	2 0.6 4.5	E
3 0.5 4.–	3 0.4 4.1	3 0.4 3.8	3 0.4 4.0	3 0.4 3.9	3 0.4 4.1	3 0.4 4.0	3 0.5 4.1	3 0.6 4.3	2 0.6 4.4	2 0.6 4.5	2 0.6 4.2	Z
												June 9
2 0.6 3.2	2 0.5 3.3	2 0.5 3.4	2 0.5 3.3	2 0.5 3.3	2 0.5 3.5	3 0.6 3.4	2 0.6 3.5	2 0.7 3.4	2 0.7 3.6	2 0.6 3.5	2 0.6 3.6	N
3 0.5 3.2	2 0.5 3.4	2 0.5 3.3	2 0.5 3.3	2 0.5 3.4	2 0.5 3.3	3 0.5 3.2	2 0.5 3.3	2 0.7 3.4	2 0.7 3.4	2 0.7 3.3	2 0.7 3.3	E
2 0.4 3.5	2 0.5 3.4	2 0.5 3.3	2 0.5 3.4	2 0.5 3.5	2 0.5 3.3	3 0.5 3.3	2 0.5 3.4	2 0.6 3.6	2 0.7 3.8	2 0.6 3.4	2 0.7 3.5	Z
												June 15
2 0.4 5.3	2 0.3 5.2	2 0.3 5.0	2 0.3 4.9	2 0.3 5.0	2 0.3 5.1	2 0.4 5.0	2 0.3 4.8	2 0.3 4.7	2 0.3 5.0	2 0.3 5.1	2 0.3 4.8	N
2 0.3 5.2	2 0.3 5.5	2 0.3 5.0	2 0.3 4.9	2 0.3 5.0	2 0.3 5.1	2 0.3 4.6	2 0.3 4.9	2 0.3 4.9	2 0.3 5.1	2 0.3 4.8	2 0.3 5.0	E
2 0.3 4.9	2 0.3 5.0	2 0.3 4.8	2 0.3 4.6	2 0.3 5.1	2 0.3 4.8	2 0.3 4.7	2 0.3 4.6	2 0.3 4.5	2 0.3 4.6	2 0.3 4.5	2 0.3 4.7	Z
												June 16
2 0.3 5.3	2 0.2 5.2	2 0.2 5.4	2 0.2 5.3	2 0.2 5.3	2 0.2 5.5	2 0.3 5.3	2 0.2 5.5	2 0.2 5.1	2 0.2 5.0	2 0.2 5.3	2 0.2 5.2	N
2 0.3 5.0	2 0.2 5.3	2 0.2 5.4	2 0.2 5.2	2 0.2 5.0	2 0.2 5.1	2 0.2 4.6	2 0.2 5.0	2 0.2 4.9	2 0.2 5.2	2 0.2 5.2	2 0.2 5.1	E
2 0.3 4.5	2 0.2 5.0	2 0.2 5.2	2 0.2 5.1	2 0.2 5.2	2 0.2 5.3	2 0.3 4.8	2 0.2 5.3	2 0.2 5.0	2 0.2 5.3	2 0.2 5.2	2 0.2 5.4	Z
												June 17
2 0.4 5.0	2 0.2 5.1	2 0.2 4.8	2 0.2 4.9	2 0.2 4.4	2 0.2 4.5	2 0.3 5.0	2 0.2 4.4	.. ..	2 0.2 4.6	2 0.2 4.2	2 0.3 3.7	N
2 0.2 4.9	2 0.2 5.1	2 0.2 4.6	2 0.2 4.8	2 0.2 4.7	2 0.2 4.4	2 0.2 4.1	2 0.2 4.3	.. ..	3 0.2 4.2	3 0.2 4.2	3 0.3 3.4	E
2 0.3 4.7	2 0.2 4.8	2 0.2 4.6	2 0.2 4.7	2 0.2 4.5	2 0.2 4.6	2 0.2 4.3	2 0.2 4.6	.. ..	2 0.2 4.4	2 0.2 4.3	2 0.2 3.5	Z
												June 18
3 0.4 2.3	3 0.4 2.4	3 0.4 2.2	3 0.4 2.4	3 0.4 2.3	3 0.4 2.4	2 0.5 2.2	2 0.4 2.4	2 0.4 2.5	2 0.4 2.7	2 0.4 2.4	2 0.4 2.5	N
3 0.4 2.2	3 0.3 2.3	3 0.4 2.2	2 0.4 2.3	3 0.4 2.3	2 0.4 2.4	2 0.4 2.2	2 0.4 2.6	2 0.4 2.3	2 0.4 2.5	2 0.4 2.5	2 0.4 2.7	E
3 0.4 2.0	3 0.4 2.1	3 0.4 2.4	3 0.4 2.3	3 0.4 2.5	3 0.4 2.6	3 0.4 2.5	3 0.4 2.3	3 0.4 2.6	3 0.4 2.7	3 0.4 2.5	3 0.4 2.7	Z
												June 19
3 0.7 2.0	2 0.5 2.4	2 0.5 2.3	2 0.5 2.6	2 0.5 2.4	2 0.5 2.6	3 0.6 2.5	2 0.4 2.6	2 0.4 2.5	2 0.4 2.3	2 0.4 2.4	2 0.4 2.5	N
3 0.3 2.5	3 0.4 2.3	2 0.4 2.4	2 0.4 2.5	2 0.4 2.6	2 0.4 2.5	3 0.3 2.3	2 0.4 2.5	2 0.4 2.3	2 0.4 2.5	2 0.3 2.4	2 0.3 2.3	E
3 0.5 2.5	3 0.5 2.6	3 0.5 2.7	3 0.5 2.4	3 0.5 2.5	3 0.5 2.4	3 0.5 2.3	3 0.5 2.5	3 0.4 2.6	3 0.4 2.7	3 0.4 2.6	3 0.4 2.5	Z
												June 20
3 0.2 4.1	2 0.2 4.0	2 0.2 4.2	2 0.2 4.3	2 0.2 4.1	2 0.2 4.2	2 0.2 4.0	2 0.2 4.3	2 0.2 4.2	2 0.2 4.0	2 0.2 4.3	2 0.2 4.2	N
2 0.2 3.9	2 0.2 4.1	2 0.2 4.3	2 0.2 4.1	2 0.2 4.3	2 0.2 4.0	2 0.2 4.0	2 0.2 4.1	2 0.2 4.2	2 0.2 4.1	2 0.2 4.1	2 0.2 4.0	E
2 0.2 4.3	2 0.2 4.4	2 0.2 4.3	2 0.2 4.3	2 0.2 4.2	2 0.2 4.3	2 0.2 4.2	2 0.2 4.3	2 0.2 4.4	2 0.2 4.3	2 0.2 4.3	2 0.2 4.4	Z
												June 21
2 0.3 3.5	2 0.2 4.1	2 0.2 4.0	2 0.2 4.1	2 0.2 4.2	2 0.2 4.0	2 0.3 4.0	2 0.2 3.9	2 0.2 4.1	2 0.2 4.2	2 0.2 4.1	2 0.2 4.2	N
2 0.3 4.0	2 0.3 4.0	2 0.3 3.9	2 0.3 4.2	2 0.3 4.1	2 0.3 4.1	2 0.3 4.0	2 0.3 4.2	2 0.3 4.0	2 0.3 4.1	2 0.3 4.2	2 0.3 4.1	E
2 0.2 4.3	2 0.2 4.2	2 0.2 4.1	2 0.2 4.0	2 0.2 4.2	2 0.2 4.1	2 0.2 4.2	2 0.2 4.1	2 0.2 4.3	2 0.2 4.1	2 0.2 4.2	2 0.2 4.0	Z
												June 22
3 0.6 2.5	2 0.4 2.8	2 0.4 3.3	2 0.4 3.4	2 0.4 3.5	2 0.4 3.7	3 0.4 3.0	2 0.4 3.5	2 0.3 3.7	2 0.3 3.6	2 0.3 4.0	2 0.3 4.0	N
3 0.3 2.1	2 0.3 2.6	2 0.3 3.0	2 0.3 3.4	2 0.3 3.3	2 0.3 4.0	3 0.3 3.2	2 0.3 3.5	2 0.3 3.8	2 0.3 4.0	2 0.3 4.1	2 0.3 3.8	E
3 0.5 2.2	3 0.4 3.1	2 0.4 3.2	2 0.3 3.5	2 0.3 3.6	2 0.3 3.6	3 0.3 3.7	2 0.3 3.8	2 0.3 3.6	2 0.3 3.7	2 0.3 3.9	2 0.3 4.0	Z
												June 23
2 0.5 4.1	2 0.3 4.2	2 0.3 4.0	2 0.3 4.1	2 0.3 4.1	2 0.3 4.3	2 0.4 4.5	2 0.3 4.0	2 0.3 4.3	2 0.3 4.2	2 0.3 4.1	2 0.3 4.0	N
2 0.3 4.0	2 0.3 4.1	2 0.3 4.2	2 0.3 4.0	2 0.3 4.1	2 0.3 4.4	2 0.3 4.5	2 0.3 4.1	2 0.3 4.1	2 0.3 4.3	2 0.3 4.0	2 0.3 4.1	E
2 0.4 3.8	2 0.3 4.0	2 0.3 4.0	2 0.3 3.9	2 0.3 4.0	2 0.3 4.1	2 0.3 4.3	2 0.3 4.2	2 0.3 4.0	2 0.3 4.1	2 0.3 3.9	2 0.3 4.2	Z
												June 24
2 0.6 4.0	2 0.3 4.1	2 0.3 4.3	2 0.3 4.5	2 0.3 4.4	2 0.3 4.4	2 0.5 4.5	2 0.3 4.3	2 0.3 4.1	2 0.3 4.4	2 0.3 4.1	2 0.3 4.3	N
2 0.4 4.1	2 0.3 4.0	2 0.3 4.3	2 0.3 4.5	2 0.3 4.2	2 0.3 4.4	2 0.4 4.1	2 0.3 4.3	2 0.3 4.3	2 0.3 4.3	2 0.3 4.0	2 0.3 4.2	E
2 0.3 4.2	2 0.3 4.1	2 0.3 4.4	2 0.3 4.3	2 0.3 4.1	2 0.3 4.3	2 0.3 4.5	2 0.3 4.1	2 0.3 4.0	2 0.3 4.2	2 0.3 4.2	2 0.3 4.1	Z

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No. 76 July-Dec. 1958

GEODÆTISK INSTITUT
Proviantgården · Copenhagen · Denmark

Bulletin of the seismological station

KØBENHAVN

$\varphi = 55°41'$ N. $\lambda = 12°26'$ E. $h = 13$ m.

Lithologic foundation: chalk

ADDITIONAL MICROSEISMIC READINGS

for

IGY Days and Periods

For every group of figures the first one indicates the character of the microseisms. 1 is group microseisms, 2 is continuous microseisms, 3 is irregular or mixed microseisms. Thereafter the single ground amplitude in microns is given, and at last the period of a full oscillation is stated. All readings are due to the Galitzin instruments, the constants of which are given in the bulletins no. 74 and 75. The given hours are GMT.

Microseisms København

1958	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h
July 16												
N	2 0.3 3.4	2 0.3 3.6	2 0.3 3.8	2 0.3 3.6	2 0.3 3.7	2 0.3 3.4	2 0.2 3.4	2 0.3 3.8	2 0.3 4.0	2 0.3 3.5	3 0.3 3.7	3 0.4 3.3
E	2 0.4 3.1	2 0.3 3.8	2 0.3 3.5	2 0.2 3.8	2 0.2 3.9	2 0.2 3.8	2 0.2 3.4	2 0.2 4.0	2 0.2 3.8	3 0.2 3.6	3 0.3 3.3	3 0.3 3.4
Z	2 0.5 3.3	2 0.5 3.9	2 0.5 3.8	2 0.4 3.9	2 0.4 4.0	2 0.4 3.9	2 0.4 3.8	2 0.4 3.8	2 0.4 3.7	2 0.4 3.8	2 0.4 3.6	2 0.4 3.7
July 17												
N	3 0.3 3.0	3 0.3 3.0	3 0.3 2.8	3 0.3 2.8	3 0.3 3.0	3 0.3 2.7	.. ..	3 0.3 2.8	3 0.3 2.7	3 0.4 2.8	3 0.4 2.6	2 0.6 3.0
E	3 0.3 2.4	3 0.3 3.–	3 0.3 3.–	3 0.3 3.–	3 0.3 3.–	3 0.3 3.–	.. ..	3 0.3 2.7	3 0.3 2.6	3 0.4 2.5	3 0.5 2.7	3 0.6 2.7
Z	3 0.4 2.8	3 0.4 3.0	3 0.4 3.1	3 0.4 3.3	3 0.4 3.5	3 0.4 3.2	3 0.4 3.1	3 0.4 3.0	3 0.4 2.8	3 0.4 2.9	3 0.6 3.1	3 0.8 3.0
July 27												
N	1 0.6 3.7	2 0.7 3.8	2 0.7 3.5	2 0.6 3.6	2 0.6 3.4	2 0.6 3.5	1 0.5 3.4	2 0.6 3.5	2 0.6 3.3	2 0.6 3.4	2 0.6 3.5	2 0.5 3.3
E	1 0.6 3.5	1 0.8 3.7	1 0.8 3.6	1 0.8 3.4	1 0.8 3.6	1 0.8 3.4	1 0.8 3.0	1 0.8 3.3	1 0.6 3.4	2 0.6 3.4	.. ..	2 0.5 3.3
Z	1 0.9 3.5	1 1.0 3.6	1 1.0 3.6	1 1.0 3.4	1 1.0 3.2	3 1.0 3.3	3 0.9 3.2	3 1.0 3.4	3 1.0 3.3	2 0.8 3.5	2 0.8 3.4	2 0.8 3.3
Aug. 7												
N	2 0.5 4.0	2 0.4 4.1	2 0.5 3.8	2 0.5 4.0	2 0.4 4.1	2 0.5 3.8	2 0.5 3.7	2 0.5 3.9	2 0.4 4.0	2 0.4 4.0	2 0.4 3.8	2 0.4 3.9
E	2 0.5 4.5	2 0.5 4.1	2 0.5 4.0	2 0.5 4.2	2 0.5 3.8	2 0.5 4.0	2 0.5 3.8	2 0.5 3.8	2 0.5 4.0	2 0.5 4.3	2 0.4 3.9	2 0.4 3.8
Z	2 0.5 3.9	2 0.5 4.0	2 0.5 4.2	2 0.4 3.9	2 0.4 3.8	2 0.4 4.0	2 0.4 3.8	2 0.4 3.9	2 0.4 4.0	2 0.4 4.1	2 0.4 3.8	2 0.4 4.0
Aug. 12												
N	3 0.3 2.5	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 2.7	3 0.2 3.–	3 0.2 3.–	3 0.3 3.–	3 0.4 2.–	3 0.4 2.–
E	3 0.2 3.5	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 2.5	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.4 2.–	3 0.4 2.–
Z	3 0.3 3.3	3 0.3 3.–	3 0.3 3.–	3 0.3 3.–	3 0.3 3.–	3 0.3 3.–	3 0.3 3.0	3 0.3 3.–	3 0.3 3.–	3 0.3 3.–	3 0.4 2.–	3 0.4 2.–
Aug. 14												
N	2 0.3 3.3	2 0.3 3.4	2 0.2 3.3	2 0.2 3.4	2 0.2 3.5	2 0.2 3.4	2 0.3 3.2	2 0.2 3.3	2 0.2 3.4	2 0.2 3.5	2 0.3 3.8	2 0.3 3.5
E	2 0.2 3.5	2 0.2 3.3	2 0.2 3.5	2 0.2 3.4	2 0.2 3.6	2 0.2 3.5	2 0.2 3.6	2 0.2 3.4	.. ..	2 0.2 3.6	2 0.2 3.7	2 0.3 3.5
Z	2 0.2 4.0	2 0.2 3.7	2 0.2 3.9	2 0.3 3.5	2 0.2 3.6	2 0.2 3.8	2 0.2 4.0	2 0.2 3.5	2 0.2 3.6	2 0.2 3.5	2 0.3 3.6	2 0.3 3.4
Aug. 15												
N	3 0.3 3.1	3 0.3 3.2	3 0.3 3.0	3 0.3 2.9	3 0.4 2.8	3 0.4 3.0	3 0.5 2.4	3 0.4 2.7	3 0.4 2.7	3 0.4 2.9	3 0.4 3.0	3 0.4 2.6
E	3 0.3 3.2	3 0.3 3.2	3 0.3 2.8	3 0.3 2.8	3 0.3 3.0	3 0.3 2.7	3 0.3 2.5	3 0.3 2.8	3 0.3 2.7	3 0.4 2.8	3 0.4 2.6	3 0.4 2.7
Z	3 0.4 3.0	3 0.4 3.1	3 0.4 3.0	3 0.4 3.0	3 0.4 3.2	3 0.4 3.2	3 0.4 3.0	3 0.4 2.9	3 0.4 3.0	3 0.4 3.0	3 0.4 2.8	3 0.4 2.9
Sept. 6												
N	2 0.1 3.7	2 0.2 4.0	2 0.2 4.0	2 0.2 4.2	2 0.2 3.8	2 0.2 4.0	2 0.2 3.6	2 0.2 4.0	2 0.2 3.9	2 0.2 4.0	2 0.2 4.1	2 0.2 4.1
E	2 0.2 4.3	2 0.2 4.2	2 0.2 4.1	2 0.2 4.3	2 0.2 4.2	2 0.2 4.2	2 0.2 4.1	2 0.2 4.0	2 0.2 3.8	2 0.2 4.0	2 0.2 3.9	2 0.2 3.7
Z	2 0.2 3.7	2 0.2 3.9	2 0.2 4.0	2 0.2 4.2	2 0.2 4.0	2 0.2 4.0	2 0.3 4.0	2 0.2 4.0	2 0.2 3.8	2 0.2 4.1	2 0.2 4.2	2 0.2 4.0
Sept. 13												
N	3 0.3 4.0	2 0.3 4.2	2 0.3 4.3	2 0.3 4.0	2 0.3 4.1	2 0.4 4.0	3 0.4 4.0	2 0.4 4.3	2 0.4 4.2	2 0.4 4.0	2 0.4 3.8	2 0.5 3.9
E	3 0.4 4.1	2 0.4 4.3	2 0.4 4.0	2 0.4 4.3	2 0.5 4.2	2 0.5 4.4	3 0.4 4.3	2 0.6 4.3	2 0.5 4.2	2 0.4 4.1	2 0.4 4.2	2 0.4 4.3
Z	3 0.4 4.1	2 0.4 4.3	2 0.4 4.0	2 0.4 4.1	2 0.4 4.3	2 0.6 4.3	3 0.6 4.2	2 0.6 4.4	2 0.5 4.3	3 0.4 4.3	3 0.4 4.2	3 0.4 4.5
Sept. 14												
N	3 0.6 4.3	3 0.6 4.4	3 0.8 4.5	3 0.8 4.6	3 0.8 4.4	3 0.9 4.3	3 0.9 4.0	1 0.9 4.2	1 1.1 4.3	1 1.1 4.3	1 1.2 4.5	1 1.2 4.4
E	3 0.6 4.6	3 0.6 4.7	3 0.7 4.6	3 0.8 4.8	3 0.8 4.7	3 0.8 4.8	3 0.8 4.7	3 0.8 4.5	3 1.0 4.4	1 1.0 4.4	1 1.0 4.5	1 1.1 4.5
Z	3 0.7 4.2	3 0.7 4.4	3 0.7 4.6	3 0.7 4.6	3 0.8 4.4	3 0.8 4.3	3 0.7 4.1	3 0.8 4.5	3 1.0 4.4	3 1.0 4.5	3 1.0 4.3	3 1.0 4.4
Sept. 15												
N	1 1.4 4.6	1 1.6 4.5	1 1.6 4.7	1 1.6 4.8	1 1.6 5.0	1 1.6 4.7	1 1.3 4.6	1 1.6 4.7	1 1.4 4.6	1 1.4 4.7	1 1.4 4.6	1 1.0 4.5
E	1 1.6 4.8	1 1.6 4.9	1 1.6 4.7	1 1.6 4.9	1 1.6 4.6	1 1.4 4.5	1 1.3 4.4	1 1.3 4.6	1 1.3 4.5	.. ..	1 1.3 4.5	1 1.2 4.2
Z	1 1.3 4.5	1 1.5 4.6	1 1.4 4.5	1 1.4 4.7	1 1.4 4.6	1 1.4 4.5	1 1.2 4.5	1 1.3 4.4	1 1.2 4.3	1 1.2 4.4	3 1.0 4.2	3 1.0 4.1
Sept. 16												
N	3 0.8 4.1	2 0.8 4.2	2 0.6 4.0	2 0.6 4.2	2 0.6 3.9	2 0.5 4.1	3 0.5 4.2	2 0.5 4.0	2 0.4 4.1	2 0.4 3.9	3 0.4 4.0	3 0.4 3.8
E	3 0.7 4.2	2 0.6 4.3	2 0.6 4.1	2 0.6 4.1	2 0.6 4.0	2 0.5 4.2	3 0.6 4.1	2 0.5 3.9	2 0.4 3.8	3 0.4 3.7	3 0.4 3.6	3 0.4 3.6
Z	3 0.8 4.0	2 0.8 4.0	2 0.8 4.2	2 0.6 4.2	2 0.6 3.8	2 0.6 3.7	3 0.6 3.6	.. ..	2 0.4 3.9	3 0.4 3.8	3 0.4 3.8	3 0.4 3.6
Sept. 17												
N	3 0.4 3.0	3 0.4 3.4	3 0.4 3.5	3 0.4 3.3	3 0.5 3.5	3 0.5 3.2	3 0.5 3.0	3 0.5 3.4	3 0.4 3.6	3 0.4 3.3	3 0.4 3.5	3 0.4 3.4
E	3 0.3 3.2	3 0.4 3.3	3 0.4 3.5	3 0.4 3.7	3 0.4 3.3	3 0.4 3.4	3 0.4 3.2	3 0.4 3.5	3 0.4 3.6	3 0.4 3.5	3 0.4 3.7	3 0.4 3.6
Z	3 0.4 3.1	3 0.4 3.4	3 0.4 3.3	3 0.4 3.6	3 0.4 3.3	3 0.4 3.2	3 0.5 3.1	3 0.4 3.3	3 0.4 3.4	3 0.4 3.3	3 0.4 3.5	3 0.4 3.4

1958	12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h
July 16												
N	3 0.4 2.8	3 0.4 3.6	3 0.4 3.3	3 0.4 3.5	3 0.4 3.1	3 0.4 3.0	3 0.4 2.4	3 0.3 2.8	3 0.3 3.1	3 0.3 3.0	3 0.3 3.2	3 0.3 3.1
E	3 0.3 2.6	3 0.3 3.0	3 0.3 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 2.9	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–	3 0.2 3.–
Z	2 0.4 3.4	2 0.4 3.5	2 0.4 3.3	2 0.4 3.5	2 0.5 3.1	2 0.5 3.0	3 0.5 2.8	2 0.5 3.5	3 0.4 3.0	3 0.4 3.2	3 0.4 3.2	3 0.4 3.4
July 17												
N	3 0.8 2.7	3 0.7 3.0	3 0.7 2.7	3 0.8 2.9	3 0.6 2.7	3 0.7 2.9	3 0.8 2.5	3 0.8 3.0	3 0.8 2.7	3 0.8 2.8	3 0.8 3.0	3 0.8 2.9
E	3 0.6 2.5	3 0.6 2.8	3 0.7 2.5	3 0.8 2.6	3 0.8 2.8	3 0.8 2.8	3 0.8 2.8	3 0.8 3.0	3 0.8 3.1	3 0.8 2.9	3 0.7 3.2	3 0.7 3.1
Z	3 1.0 2.8	1 0.8 3.1	1 0.8 3.0	1 1.1 3.1	1 1.3 3.2	1 1.4 3.0	1 1.6 3.0	1 1.3 3.1	1 1.2 3.0	1 1.2 3.0	1 1.2 2.8	1 1.2 3.1
July 27												
N	3 0.5 3.2	2 0.5 3.3	2 0.5 3.4	2 0.5 3.3	2 0.5 3.2	2 0.5 3.3	3 0.5 3.3	2 0.4 3.2	2 0.4 3.3	2 0.4 3.3	2 0.4 3.2	3 0.4 3.3
E	3 0.4 3.2	2 0.5 3.2	2 0.4 3.2	2 0.4 3.3	2 0.4 3.3	2 0.4 3.2	3 0.4 3.0	2 0.4 3.2	2 0.4 3.3	2 0.4 3.3	2 0.4 3.3	2 0.4 3.3
Z	3 0.8 3.2	2 0.7 3.3	2 0.7 3.4	2 0.7 3.3	2 0.7 3.2	2 0.7 3.4	3 0.7 3.2	2 0.7 3.4	2 0.7 3.3	2 0.7 3.2	2 0.7 3.4	2 0.7 3.3
Aug. 7												
N	2 0.4 3.8	2 0.4 3.9	2 0.4 4.1	2 0.4 4.0	2 0.4 3.8	2 0.4 3.9	2 0.4 3.8	2 0.4 3.8	2 0.4 3.9	2 0.4 3.9	2 0.4 4.0	2 0.4 3.8
E	2 0.4 3.8	2 0.4 4.0	2 0.4 3.9	2 0.4 3.9	2 0.4 3.9	2 0.4 4.1	2 0.4 3.9	2 0.4 4.2	2 0.4 4.0	2 0.4 4.0	2 0.4 4.0	2 0.4 4.0
Z	2 0.4 3.8	2 0.4 3.8	2 0.4 4.0	2 0.4 3.8	2 0.4 3.7	2 0.4 4.0	2 0.4 3.7	2 0.4 3.9	2 0.4 4.0	2 0.4 3.8	2 0.4 3.8	2 0.4 3.9
Aug. 12												
N	3 0.5 2.2	3 0.4 2.–	3 0.4 2.–	3 0.4 2.–	3 0.4 2.–	3 0.4 2.–	3 0.4 2.3	3 0.4 2.–	.. ..	.. ..	3 0.4 2.9	3 0.5 2.9
E	3 0.3 2.0	3 0.4 2.–	3 0.4 2.–	3 0.3 2.–	3 0.3 2.–	3 0.3 2.–	3 0.3 2.2	3 0.4 2.–	.. ..	.. ..	3 0.4 2.8	3 0.4 2.9
Z	3 0.5 2.3	3 0.5 2.–	3 0.5 2.–	3 0.5 2.–	3 0.5 2.–	3 0.5 2.–	3 0.5 2.3	3 0.5 2.–	.. ..	.. ..	3 0.5 2.8	3 0.5 3.0
Aug. 14												
N	.. ..	2 0.3 3.4	2 0.3 3.5	2 0.3 3.4	.. ..	.. ..	3 0.4 3.0	3 0.3 3.2	3 0.3 3.2	3 0.3 3.1	3 0.3 3.0	3 0.3 3.3
E	.. ..	2 0.3 3.4	2 0.3 3.3	2 0.3 3.4	.. ..	.. ..	3 0.3 3.0	3 0.3 3.2	3 0.3 3.1	3 0.3 3.0	3 0.3 3.0	3 0.3 3.0
Z	.. ..	2 0.3 3.3	2 0.3 3.4	2 0.3 3.3	.. ..	.. ..	3 0.4 3.2	3 0.3 3.3	3 0.3 3.2	3 0.3 3.4	3 0.3 3.2	3 0.3 3.3
Aug. 15												
N	3 0.5 2.2	3 0.4 2.8	3 0.4 2.7	3 0.4 2.6	3 0.4 2.7	3 0.4 2.9	3 0.4 2.5	3 0.4 2.7	3 0.4 2.8	.. ..	.. ..	.. ..
E	3 0.2 2.5	3 0.4 3.0	3 0.4 2.7	3 0.4 2.8	3 0.4 2.8	3 0.4 2.6	3 0.2 2.5	3 0.4 3.0	3 0.4 2.7	.. ..	.. ..	.. ..
Z	3 0.4 2.8	3 0.4 3.0	3 0.4 3.0	3 0.4 2.7	3 0.4 2.8	3 0.4 2.8	3 0.4 2.7	3 0.4 3.0	3 0.4 2.8	.. ..	.. ..	.. ..
Sept. 6												
N	2 0.1 4.0	2 0.2 4.1	2 0.2 4.1	2 0.2 4.0	2 0.2 3.8	2 0.2 3.8	2 0.1 3.5	2 0.2 3.7	2 0.2 4.0	2 0.2 4.0	2 0.2 3.8	2 0.2 3.7
E	2 0.2 3.3	2 0.2 3.8	2 0.2 3.9	2 0.2 4.0	2 0.2 4.1	2 0.2 3.8	2 0.2 3.6	2 0.2 3.9	2 0.2 3.7	2 0.2 3.9	2 0.2 3.9	2 0.2 3.9
Z	2 0.2 4.0	2 0.2 4.1	2 0.2 3.8	2 0.2 3.9	2 0.2 4.0	2 0.2 3.9	2 0.2 4.0	2 0.2 4.2	2 0.2 3.9	2 0.2 4.1	2 0.2 4.0	2 0.2 4.0
Sept. 13												
N	3 0.5 3.8	2 0.5 4.1	2 0.5 4.2	2 0.5 4.4	2 0.5 4.3	2 0.5 4.4	3 0.6 4.2	2 0.6 4.2	2 0.6 4.3	2 0.6 4.4	2 0.6 4.3	2 0.6 4.5
E	3 0.4 4.1	2 0.4 4.3	2 0.5 4.4	2 0.5 4.3	2 0.5 4.4	2 0.5 4.5	3 0.5 4.2	2 0.5 4.3	2 0.5 4.4	2 0.5 4.5	2 0.5 4.4	2 0.5 4.5
Z	3 0.4 4.5	3 0.4 4.2	3 0.4 4.6	3 0.4 4.4	3 0.5 4.6	3 0.5 4.3	3 0.4 4.2	3 0.4 4.4	3 0.5 4.4	3 0.5 4.2	3 0.5 4.3	3 0.7 4.3
Sept. 14												
N	1 1.2 4.6	1 1.2 4.3	1 1.2 4.6	.. ..	1 1.4 4.6	1 1.4 4.8	1 1.4 4.7	1 1.6 4.6	1 1.6 4.5	1 1.6 4.8	1 1.6 4.7	1 1.5 4.6
E	3 0.9 4.3	1 1.1 4.4	1 1.0 4.3	.. ..	1 1.3 4.7	1 1.3 4.4	1 1.4 5.0	1 1.5 4.5	1 1.5 4.6	1 1.6 4.8	1 1.6 5.0	1 1.6 4.7
Z	3 1.1 4.2	1 1.2 4.3	1 1.2 4.4	.. ..	.. ..	.. ..	1 1.2 4.5	1 1.3 4.4	1 1.3 4.5	1 1.4 4.6	1 1.4 4.6	1 1.5 4.8
Sept. 15												
N	1 1.0 4.5	1 1.1 4.4	1 1.0 4.3	1 1.0 4.2	1 1.1 4.4	1 1.1 4.3	1 1.1 4.1	1 0.9 4.0	1 0.9 4.3	.. ..	2 0.8 4.0	2 0.8 4.2
E	1 1.3 4.2	1 1.2 4.3	1 1.4 4.3	1 1.2 4.0	1 1.2 4.2	1 1.0 4.2	1 0.9 4.6	1 0.9 4.2	2 0.9 4.0	.. ..	2 0.6 4.3	2 0.6 4.1
Z	3 1.0 3.9	3 1.0 4.0	2 0.9 4.0	2 0.9 3.9	2 0.9 4.2	2 0.9 4.2	3 0.8 4.3	2 0.8 4.4	2 0.8 4.1	.. ..	2 0.8 4.1	2 0.8 4.0
Sept. 16												
N	3 0.4 3.9	3 0.4 3.5	3 0.4 3.7	.. ..	3 0.4 3.7	3 0.4 3.6	3 0.4 3.3	3 0.4 3.5	3 0.4 3.6	3 0.4 3.5	3 0.4 3.4	3 0.4 3.5
E	3 0.4 3.5	3 0.4 3.7	3 0.4 3.6	.. ..	3 0.4 3.5	3 0.4 3.7	3 0.4 3.5	3 0.4 3.4	3 0.4 3.7	3 0.4 3.6	3 0.4 3.5	3 0.4 3.6
Z	3 0.4 3.4	3 0.4 3.5	3 0.4 3.6	.. ..	3 0.4 3.7	3 0.4 3.6	3 0.4 3.0	3 0.4 3.4	3 0.4 3.4	3 0.4 3.3	3 0.4 3.2	3 0.4 3.5
Sept. 17												
N	3 0.5 3.2	3 0.4 3.6	3 0.4 3.5	3 0.4 3.6	3 0.4 3.5	3 0.4 3.6	3 0.5 3.9	3 0.4 3.8	3 0.4 3.6	3 0.4 3.7	3 0.4 3.7	3 0.4 3.6
E	3 0.4 3.4	3 0.4 3.5	3 0.4 3.8	3 0.4 3.7	3 0.4 3.7	3 0.4 3.6	3 0.4 3.6	3 0.4 3.7	3 0.4 3.6	3 0.4 3.8	3 0.4 3.6	3 0.4 3.8
Z	3 0.4 3.3	3 0.4 3.6	3 0.4 3.7	3 0.4 3.5	3 0.4 3.5	3 0.4 3.7	3 0.4 3.5	3 0.4 3.6	3 0.4 3.7	3 0.4 3.6	3 0.4 3.6	3 0.4 3.8

1958	0^h	1^h	2^h	3^h	4^h	5^h	6^h	7^h	8^h	9^h	10^h	11^h
Sept. 18												
N	3 0.4 3.5	3 0.4 4.2	3 0.4 4.7	3 0.4 3.8	3 0.5 4.2	3 0.6 4.4	3 0.7 3.5	3 0.7 3.8	3 0.7 3.8	3 0.7 4.0	3 0.7 4.0	3 0.7 3.9
E	3 0.4 3.6	3 0.4 4.3	3 0.4 4.1	3 0.4 4.2	3 0.5 4.0	3 0.5 4.1	3 0.4 3.8	3 0.7 4.1	3 0.5 4.0	3 0.6 4.2	3 0.6 4.3	3 0.6 4.1
Z	3 0.5 3.4	3 0.4 4.3	3 0.4 4.0	3 0.4 3.8	3 0.4 3.9	3 0.4 4.2	3 0.4 3.5	3 0.4 4.0	3 0.4 4.3	3 0.5 4.2	3 0.5 3.9	3 0.6 4.0
Sept. 19												
N	3 0.7 3.7	3 0.7 4.0	3 0.7 4.0	3 0.7 4.0	3 0.7 4.0	3 0.7 4.2	3 0.6 3.5	3 0.7 4.1	3 0.7 4.2	3 0.7 4.2	3 0.7 4.5	3 0.7 4.4
E	3 0.8 3.8	3 0.7 4.1	3 0.7 4.1	3 0.7 4.4	3 0.7 4.2	3 0.7 4.3	3 0.7 4.2	3 0.7 4.3	3 0.6 4.5	3 0.6 4.3	3 0.5 4.6	3 0.5 4.5
Z	3 0.7 4.0	3 0.7 4.1	3 0.7 4.4	3 0.7 4.2	3 0.7 4.5	3 0.7 4.3	3 0.7 4.0	3 0.7 4.6	3 0.7 4.4	3 0.7 4.5	3 0.7 4.6	3 0.7 4.3
Sept. 20												
N	3 0.9 4.1	3 0.9 4.3	3 0.9 4.1	3 0.9 4.4	3 0.9 4.3	3 0.9 4.1	3 0.9 3.8	3 0.9 4.0	3 0.9 4.2	3 1.0 4.0	3 1.0 4.1	3 1.0 3.9
E	3 0.9 4.2	3 0.9 4.5	3 0.8 4.8	3 0.9 4.6	3 0.9 4.4	3 0.9 4.5	3 0.8 4.0	3 0.9 4.3	3 0.9 4.5	3 0.9 4.3	3 0.9 4.3	3 0.9 4.1
Z	3 0.7 4.5	3 0.8 4.4	3 0.8 4.4	3 0.9 4.2	3 0.9 4.1	3 0.9 4.3	3 0.9 3.8	3 0.9 4.0	3 0.9 4.1	3 1.0 4.1	3 1.0 4.1	3 1.0 4.0
Sept. 21												
N	3 0.8 3.0	3 0.8 3.4	3 0.8 3.5	3 0.8 3.3	3 0.7 3.7	3 0.7 3.7	3 0.7 3.5	3 0.5 3.4	.. ..	.. ..	.. ..	.. ..
E	3 0.7 3.8	3 0.8 3.5	3 0.8 3.7	3 0.7 4.1	3 0.7 4.0	3 0.7 3.8	3 0.7 3.0	3 0.7 3.6	3 0.5 4.3	3 0.5 3.8	3 0.5 3.7	3 0.5 3.9
N	3 0.8 3.0	3 0.8 3.4	3 0.6 3.3	3 0.7 3.4	3 0.6 3.6	3 0.6 3.6	3 0.5 3.5	3 0.5 3.8	3 0.4 3.9	3 0.4 3.6	3 0.4 3.8	3 0.4 3.7
Sept. 22												
N	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	3 0.3 3.2	3 0.3 3.0	3 0.3 3.3
E	3 0.5 3.7	3 0.4 4.0	3 0.4 3.8	3 0.4 4.1	3 0.4 3.7	3 0.4 3.6	3 0.4 3.5	3 0.4 4.0	3 0.4 3.8	3 0.3 3.5	3 0.3 3.2	3 0.3 3.1
Z	3 0.4 3.7	3 0.4 3.6	3 0.4 3.5	3 0.4 3.6	3 0.4 3.4	3 0.4 3.5	3 0.4 3.0	3 0.4 3.2	3 0.4 3.4	3 0.3 3.0	3 0.3 3.2	3 0.3 3.0
Oct. 10												
N	3 1.6 5.–	3 2.0 5.5	3 2.0 5.3	3 1.8 5.7	3 1.8 5.8	3 1.8 5.8	3 1.6 6.–	3 1.5 5.8	3 1.8 5.6	3 1.8 5.8	3 2.5 6.3	3 1.3 5.7
E	3 1.2 5.5	3 1.3 5.4	3 1.3 5.3	3 1.6 5.8	3 1.2 5.3	3 1.5 5.6	3 1.7 5.5	3 1.8 5.8	3 1.5 5.5	3 1.3 5.9	3 1.5 5.7	3 1.8 6.0
Z	3 1.3 5.–	3 2.0 6.0	3 2.0 5.5	3 1.7 5.6	3 1.2 5.3	3 2.0 5.8	3 1.2 5.6	3 1.5 5.6	3 1.3 5.6	3 1.3 5.8	3 2.2 5.8	3 1.2 6.0
Oct. 11												
N	3 1.1 4.8	3 0.9 4.7	3 1.1 4.5	3 1.0 4.6	3 1.0 4.2	3 0.8 4.0	3 0.9 4.5	3 0.9 4.3	3 0.9 4.1	2 0.8	2 0.8	2 0.8
E	3 1.0 4.7	3 1.3 4.6	3 0.9 4.2	3 1.0 4.3	3 1.0 4.4	3 0.9 4.1	3 1.0 4.3	3 0.9 4.1	3 1.0 3.9	2 0.9 4.5	2 0.9 4.2	2 0.8 4.0
Z	3 1.1 4.4	3 1.0 4.3	3 0.8 4.1	3 1.0 4.2	3 1.0 4.1	3 1.0 4.0	3 1.0 4.0	3 0.8 4.3	3 0.8 4.0	2 0.8 4.1	2 0.8 4.0	2 0.8 4.1
Oct. 12												
N	3 0.6 4.3	2 0.7 4.5	2 0.7 4.5	2 0.7 4.5	2 0.7 4.5	2 0.7 4.6	3 0.6 4.5	2 0.7 4.5	2 0.7 4.3	2 0.6 4.1	1 0.8 4.1	1 0.8 4.2
E	2 0.8 4.6	2 0.7 5.0	2 0.7 4.6	2 0.7 4.5	2 0.7 4.8	2 0.7 4.3	2 0.7 4.4	2 0.7 4.7	2 0.7 4.3	2 0.6 4.3	1 0.8 4.3	1 0.9 4.5
Z	2 0.7 4.–	2 0.6 4.4	2 0.6 4.3	2 0.6 4.3	2 0.6 4.4	2 0.6 4.3	3 0.6 4.2	2 0.6 4.5	2 0.6 4.5	2 0.6 4.2	2 0.6 4.3	2 0.6 4.2
Oct. 13												
N	1 0.7 4.3	1 0.8 4.0	1 0.8 4.2	1 0.8 4.1	1 0.8 4.0	1 0.7 4.2	1 0.7 4.3	1 0.7 4.2	1 0.8 4.3	1 0.7 4.3	1 0.7 4.5	1 0.8 4.5
E	1 0.8 4.4	1 0.8 4.3	1 0.8 4.2	1 0.8 4.3	1 0.8 4.3	1 0.8 4.6	1 0.7 4.5	1 0.8 4.4	1 0.8 4.5	1 0.7 4.5	1 0.7 4.6	1 0.7 4.3
Z	2 0.6 4.3	2 0.6 4.1	2 0.6 4.2	2 0.6 4.5	2 0.6 4.4	2 0.6 4.1	2 0.6 4.4	2 0.6 4.3	2 0.6 4.2	2 0.6 4.3	2 0.7 4.4	1 0.7 4.3
Nov. 4												
N	3 0.4 4.3	3 0.4 4.3	3 0.4 4.4	3 0.4 4.4	3 0.4 4.1	3 0.4 4.3	3 0.4 4.3	3 0.4 4.2	3 0.4 4.6	3 0.4 4.4	3 0.4 4.2	3 0.4 4.4
E	3 0.5 4.5	3 0.5 4.4	3 0.5 4.3	3 0.5 4.4	3 0.5 4.4	3 0.5 4.5	3 0.6 5.0	3 0.4 4.5	3 0.4 4.8	3 0.5 4.5	3 0.5 4.6	3 0.5 4.5
Z	3 0.5 4.3	3 0.5 4.1	3 0.5 4.2	3 0.5 4.3	3 0.5 4.2	3 0.5 4.4	3 0.5 4.5	3 0.5 4.4	3 0.5 4.3	3 0.4 4.3	3 0.4 3.9	3 0.4 4.1
Nov. 10												
N	3 0.8 5.0	3 0.8 4.7	3 0.7 4.5	3 0.7 4.6	3 0.7 4.8	3 0.7 4.3	3 0.7 4.6	3 0.8 4.5	3 0.7 4.5	3 0.7 4.0	3 0.7 3.9	3 0.7 4.2
E	3 1.0 5.5	3 1.0 5.0	3 0.9 4.7	3 0.9 4.5	3 0.9 4.8	3 0.9 4.9	3 0.9 4.7	3 0.8 4.5	3 0.8 4.8	3 0.8 4.3	3 0.8 4.4	3 0.8 4.2
Z	3 0.9 4.5	3 1.0 4.5	3 0.9 4.3	3 0.8 4.6	3 0.7 4.4	3 0.8 4.3	3 0.8 4.7	3 0.8 4.2	3 0.8 4.3	3 0.7 4.2	3 0.7 4.0	3 0.7 4.0
Nov. 11												
N	3 0.5 4.7	3 0.6 3.9	3 0.6 3.9	3 0.6 3.9	3 0.6 3.7	3 0.6 4.0	3 0.6 3.9	3 0.6 4.0	3 0.6 4.2	2 0.5 4.1	2 0.5 4.0	2 0.4 3.8
E	3 0.6 4.5	3 0.6 4.3	3 0.6 4.4	3 0.6 4.5	3 0.6 4.3	3 0.6 4.4	3 0.5 5.–	3 0.6 4.5	3 0.6 4.6	2 0.5 4.3	2 0.4 4.4	2 0.4 4.5
Z	3 0.6 4.5	3 0.5 4.3	3 0.5 4.1	3 0.5 4.3	3 0.5 4.2	3 0.5 4.0	3 0.6 4.0	3 0.5 4.0	3 0.5 3.7	2 0.5 4.1	2 0.5 4.0	2 0.5 3.8
Nov. 18												
N	3 3.– 6.–	3 2.5 5.5	3 3.– 6.0	3 4.– 5.8	3 4.– 6.0	3 3.– 6.0	3 3.– 6.–	3 3.– 5.5	3 3.– 5.4	3 2.5 5.8	3 2.3 5.3	3 2.3 5.5
E	3 3.– 5.0	3 3.– 5.5	3 2.5 5.5	3 3.– 5.7	3 3.– 5.5	3 2.3 5.6	3 3.– 5.5	2 2.5 5.5	2 2.5 5.5	3 2.3 5.5	3 2.0 5.3	3 2.0 5.6
Z	3 2.– 6.–	3 2.3 5.8	3 2.2 6.0	3 2.3 5.7	3 2.3 6.3	3 3.0 6.2	3 2.– 6.–	3 1.8 6.2	3 2.1 6.–	3 2.2 5.6	3 1.4 5.2	3 1.6 5.3

12^h	13^h	14^h	15^h	16^h	17^h	18^h	19^h	20^h	21^h	22^h	23^h	1958
												Sept. 18
3 0.7 3.2	3 0.7 4.0	3 0.7 4.3	3 0.7 4.1	3 0.7 4.1	3 0.7 4.0	3 0.7 3.3	3 0.7 3.8	3 0.7 4.2	3 0.7 4.1	3 0.7 4.0	3 0.7 4.0	*N*
3 0.5 3.6	3 0.6 4.2	3 0.6 4.0	3 0.6 4.3	3 0.5 4.0	3 0.5 4.2	3 0.5 4.4	3 0.5 4.4	3 0.6 4.3	3 0.6 4.5	3 0.6 4.5	3 0.6 4.3	*E*
3 0.6 3.6	3 0.6 4.0	3 0.6 4.2	3 0.6 4.2	3 0.6 4.3	3 0.6 4.5	3 0.6 4.2	3 0.6 4.6	3 0.7 4.3	3 0.7 4.4	3 0.7 4.6	3 0.7 4.7	*Z*
												Sept. 19
3 0.7 4.2	3 0.7 4.4	3 0.7 4.2	3 0.7 4.3	3 0.7 4.2	3 0.7 4.3	3 0.6 4.7	3 0.7 4.4	3 0.7 4.5	3 0.8 4.3	3 0.8 4.4	3 0.8 4.5	*N*
3 0.5 4.5	3 0.5 4.8	3 0.6 4.7	3 0.6 4.4	3 0.6 4.8	3 0.7 4.8	3 0.7 4.7	3 0.8 4.6	3 0.8 4.9	3 0.9 4.7	3 0.9 4.8	3 0.9 4.4	*E*
3 0.8 4.1	3 0.6 4.1	3 0.6 4.4	3 0.6 4.6	3 0.6 4.5	3 0.6 4.2	3 0.5 4.3	3 0.7 4.5	3 0.8 4.4	3 0.8 4.3	3 0.8 4.5	3 0.8 4.6	*Z*
												Sept. 20
3 1.0 4.0	3 1.2 4.2	3 1.2 4.3	3 1.2 3.9	3 1.0 4.0	3 1.0 3.8	3 1.0 3.0	.. ..	3 1.0 3.0	3 1.0 3.4	3 0.8 3.2	3 0.8 3.6	*N*
3 0.9 3.7	3 0.9 3.9	3 0.8 3.8	3 0.8 3.5	3 0.8 3.6	3 0.8 3.5	3 0.8 3.6	.. ..	3 0.8 3.2	3 0.8 3.3	3 0.8 3.0	3 0.8 3.2	*E*
3 1.0 3.8	3 1.0 3.8	3 0.9 3.6	3 0.8 3.5	3 0.9 3.8	3 0.9 3.2	3 1.1 3.0	.. ..	3 0.8 3.5	3 0.8 3.3	3 0.8 3.4	3 0.8 3.6	*Z*
												Sept. 21
.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	*N*
3 0.4 3.8	3 0.4 4.1	3 0.4 3.9	3 0.4 4.2	3 0.4 4.5	3 0.4 4.2	3 0.4 3.9	3 0.4 4.1	3 0.4 4.0	3 0.4 4.2	3 0.4 4.0	3 0.4 4.2	*E*
3 0.4 3.6	3 0.4 3.6	3 0.4 3.7	3 0.4 3.4	3 0.4 3.7	3 0.4 3.6	3 0.5 3.4	3 0.4 3.6	3 0.4 3.7	3 0.4 3.7	3 0.4 3.5	3 0.4 3.6	*Z*
												Sept. 22
2 0.3 3.5	3 0.3 3.2	3 0.3 3.0	3 0.3 3.5	3 0.3 3.4	3 0.3 3.6	3 0.3 3.6	3 0.3 3.3	.. ..	.. ..	3 0.3 3.3	3 0.3 3.2	*N*
3 0.2 3.0	3 0.3 3.5	3 0.3 3.2	3 0.3 3.3	3 0.3 3.3	3 0.3 3.5	3 0.3 3.5	3 0.3 3.5	.. ..	.. ..	3 0.3 3.2	3 0.3 3.1	*E*
3 0.3 2.8	3 0.3 3.3	3 0.3 3.1	3 0.3 3.4	3 0.3 3.5	3 0.3 3.4	3 0.3 3.3	3 0.3 3.4	.. ..	.. ..	3 0.3 3.6	3 0.3 3.3	*Z*
												Oct. 10
3 1.7 6.–	3 1.5 6.0	3 1.8 6.2	3 1.2 5.7	3 1.3 5.5	3 1.0 5.5	3 1.3 5.5	3 1.4 5.6	3 1.2 4.9	3 1.0 4.8	3 1.0 4.8	3 1.2 4.9	*N*
3 1.7 5.2	3 1.2 5.4	3 1.3 5.2	3 1.5 5.8	3 1.0 5.3	3 1.2 5.6	3 1.3 5.3	3 1.4 5.2	3 1.1 4.8	3 1.0 4.7	3 0.9 4.5	3 0.9 4.4	*E*
3 1.6 5.8	3 1.2 5.6	3 1.5 5.3	3 1.2 5.5	3 1.2 5.7	3 0.9 5.2	3 1.1 5.3	3 1.1 4.9	3 1.3 5.1	3 1.0 4.9	3 1.0 4.5	3 1.0 4.3	*Z*
												Oct. 11
2 0.8 4.3	2 0.8 4.5	2 0.7 4.4	2 0.7 4.6	2 0.7 4.5	2 0.7 4.3	2 0.7 4.3	2 0.7 4.4	2 0.7 4.5	2 0.7 4.3	2 0.7 4.1	2 0.7 4.2	*N*
2 0.8 4.5	2 0.8 4.6	2 0.8 4.5	2 0.8 4.5	2 0.7 4.5	2 0.7 4.5	2 0.8 4.7	2 0.6 4.5	2 0.6 4.6	2 0.6 4.6	2 0.7 4.5	2 0.7 4.7	*E*
2 0.8 4.3	2 0.7 4.3	2 0.7 4.2	2 0.6 4.1	2 0.6 4.2	2 0.6 4.2	2 0.7 4.7	2 0.6 4.3	2 0.6 4.1	2 0.6 4.3	2 0.6 4.2	2 0.6 4.5	*Z*
												Oct. 12
1 1.0 4.0	1 0.8 4.3	1 0.8 4.1	1 0.8 4.2	1 0.8 4.2	1 0.8 4.0	1 0.8 4.0	1 0.8 4.1	1 0.8 4.3	1 0.8 4.1	1 0.8 4.2	1 0.8 4.1	*N*
1 1.0 4.0	1 0.9 4.6	1 0.9 4.2	1 0.9 4.3	1 0.9 4.6	1 0.8 4.3	1 0.8 4.3	1 0.8 4.3	1 0.8 4.2	1 0.8 4.4	1 0.8 4.5	1 0.8 4.3	*E*
2 0.7 4.6	2 0.6 4.3	2 0.6 4.3	2 0.7 4.2	2 0.7 4.3	2 0.7 4.4	2 0.7 4.4	2 0.7 4.1	2 0.6 4.2	2 0.6 4.1	2 0.6 4.3	2 0.6 4.3	*Z*
												Oct. 13
1 0.8 4.6	1 0.8 4.5	1 0.9 4.6	1 1.0 4.5	1 1.0 4.5	1 1.2 4.8	1 1.4 4.5	1 1.6 4.8	1 1.5 4.7	1 1.6 4.7	1 1.5 4.7	1 1.5 4.6	*N*
1 1.0 4.3	1 1.0 4.3	1 1.2 4.5	1 1.2 4.4	1 1.2 4.5	1 1.5 4.7	1 1.4 4.4	1 1.5 4.8	1 1.5 4.7	1 1.5 4.6	1 1.5 4.8	1 1.5 4.7	*E*
1 0.9 4.0	1 1.0 4.5	1 1.0 4.3	1 1.0 4.6	1 1.0 4.3	1 1.2 4.5	1 1.3 4.7	1 1.3 4.8	1 1.5 4.7	1 1.5 4.7	1 1.5 4.5	1 1.5 4.8	*Z*
												Nov. 4
3 0.5 4.0	3 0.4 4.2	3 0.4 4.3	3 0.4 4.0	3 0.4 4.1	3 0.4 4.3	3 0.6 3.8	3 0.4 4.0	3 0.4 4.2	3 0.4 4.1	3 0.3 3.7	3 0.3 3.8	*N*
3 0.6 4.0	3 0.4 4.2	3 0.4 4.4	3 0.4 4.3	3 0.5 4.5	3 0.4 4.4	3 0.4 5.0	3 0.4 4.6	3 0.4 4.5	3 0.4 4.3	3 0.4 4.3	3 0.4 4.4	*E*
3 0.4 4.0	3 0.5 4.2	3 0.4 3.9	3 0.4 4.1	3 0.3 4.0	3 0.4 3.9	3 0.4 3.7	3 0.3 4.0	3 0.3 3.8	3 0.3 4.2	3 0.3 4.0	3 0.3 3.9	*Z*
												Nov. 10
3 0.8 4.0	3 0.7 4.0	3 0.6 4.1	3 0.6 4.0	3 0.6 3.8	3 0.6 3.9	3 0.7 4.0	3 0.6 3.8	3 0.6 3.7	3 0.6 4.1	3 0.6 3.8	3 0.6 3.8	*N*
3 0.9 4.0	3 0.8 4.2	3 0.7 4.3	3 0.7 4.4	3 0.7 4.3	3 0.7 4.4	3 0.7 4.3	3 0.7 4.2	3 0.7 4.2	3 0.6 4.3	3 0.6 4.5	3 0.6 3.9	*E*
3 0.8 3.8	3 0.8 3.9	3 0.7 4.0	3 0.7 3.8	3 0.7 4.1	3 0.7 3.9	3 0.9 4.0	3 0.6 3.8	3 0.6 4.2	3 0.6 4.0	3 0.6 4.0	3 0.6 4.0	*Z*
												Nov. 11
2 0.5 4.0	2 0.4 4.0	2 0.4 4.0	2 0.4 3.7	2 0.4 3.5	2 0.4 3.6	2 0.6 4.0	2 0.4 3.5	2 0.4 3.7	2 0.4 3.7	2 0.4 3.9	2 0.4 3.6	*N*
2 0.4 4.5	2 0.4 4.3	2 0.4 4.5	2 0.4 4.5	2 0.4 4.4	2 0.4 4.3	2 0.4 4.5	2 0.4 4.2	2 0.4 4.0	2 0.4 3.8	2 0.4 3.9	2 0.4 4.0	*E*
2 0.6 4.0	2 0.5 3.9	2 0.4 3.8	2 0.4 3.8	2 0.4 4.0	2 0.4 3.6	2 0.6 3.8	2 0.4 3.7	2 0.4 3.7	2 0.4 3.6	2 0.4 3.6	2 0.4 3.9	*Z*
												Nov. 18
3 2.– 5.–	3 1.5 5.2	3 1.5 5.0	3 1.5 5.3	3 1.5 5.1	3 1.3 5.0	3 1.5 5.–	3 1.1 5.2	3 1.4 5.0	3 1.0 5.0	3 1.0 5.2	3 1.0 4.7	*N*
3 2.– 5.0	3 1.8 5.3	3 1.9 5.0	3 1.7 5.2	3 1.7 5.1	3 1.6 5.7	3 1.5 5.0	3 1.6 5.3	3 1.3 5.1	3 1.5 5.3	3 1.2 5.2	3 1.2 5.0	*E*
3 1.2 5.0	3 1.2 5.0	3 1.1 5.0	3 1.0 5.0	3 1.0 5.0	3 1.0 5.2	3 1.0 5.5	3 1.0 5.3	3 0.9 5.1	3 0.9 5.3	3 0.9 5.0	3 0.8 5.0	*Z*

1958	0^{h}	1^{h}	2^{h}	3^{h}	4^{h}	5^{h}	6^{h}	7^{h}	8^{h}	9^{h}	10^{h}	11^{h}
Dec. 10												
N	3 0.8 3.8	3 0.7 4.5	3 0.7 4.2	3 0.6 4.0	3 0.6 4.3	3 0.7 4.5	3 0.8 5.–	3 0.7 4.8	.. ..	3 0.6 5.0	3 0.7 4.8	3 0.7 4.7
E	3 1.3 3.7	3 1.0 4.3	3 1.0 4.0	3 1.0 4.2	3 1.0 4.3	3 1.0 4.4	3 0.9 4.5	3 1.0 4.6	.. ..	3 0.8 4.7	3 0.8 4.8	3 0.7 4.7
Z	3 0.6 3.7	3 0.6 4.0	3 0.6 4.1	3 0.6 4.3	3 0.6 4.5	3 0.6 4.5	3 0.5 4.4	3 0.4 4.8	.. ..	3 0.4 4.8	3 0.4 4.6	3 0.4 4.6
Dec. 11												
N	3 0.7 4.5	3 0.8 4.3	3 0.8 4.5	3 1.0 4.8	3 0.9 4.9	3 1.2 4.8	3 1.1 5.–	3 1.2 4.5	3 1.1 4.9	3 1.0 5.5	3 1.0 5.6	3 1.0 5.7
E	3 1.1 4.5	3 1.2 4.8	3 1.0 4.7	3 1.2 5.0	3 1.1 5.0	3 1.4 5.0	3 1.3 4.8	3 1.4 5.0	3 1.4 5.5	3 1.1 5.2	3 1.2 5.5	3 1.2 5.3
Z	3 0.6 4.5	3 0.7 4.7	3 0.6 4.7	3 0.6 4.7	3 0.8 5.0	3 1.0 5.0	3 0.8 5.–	3 0.9 5.0	3 0.9 5.2	3 0.8 5.6	3 0.8 5.8	3 0.7 5.8
Dec. 12												
N	3 1.1 5.4	3 1.0 5.0	3 1.0 5.0	3 1.0 5.0	3 1.0 5.2	3 1.0 5.0	3 1.0 5.5	3 1.0 5.1	3 1.0 5.3	3 1.0 5.3	3 0.9 5.6	3 1.0 5.3
E	3 1.1 5.0	3 1.0 4.8	3 1.0 5.2	3 1.1 4.7	3 1.2 4.9	3 1.0 5.3	3 1.1 4.8	3 1.0 5.1	3 1.1 5.3	3 1.2 5.0	3 1.4 5.1	3 1.4 4.9
Z	3 0.8 5.0	3 0.6 5.5	3 0.6 5.5	3 0.6 5.5	3 0.6 5.5	3 0.6 5.5	3 0.6 5.–	3 0.6 5.0	3 0.7 5.0	3 0.8 5.0	3 0.8 5.1	3 1.0 5.2
Dec. 13												
N	3 1.7 5.0	3 1.6 4.9	3 2.1 5.1	3 1.5 4.8	3 1.6 5.0	3 1.7 4.9	3 1.9 4.8	3 1.7 4.6	3 1.7 4.7	3 2.2 4.6	3 2.2 4.8	3 2.2 4.7
E	3 1.7 4.6	3 1.8 5.0	3 1.8 4.9	3 1.8 4.8	3 2.1 4.6	3 2.0 4.8	3 2.0 4.7	3 2.2 4.7	3 2.2 5.1	3 2.2 5.0	3 2.3 4.9	3 2.6 5.2
Z	3 1.1 5.3	3 1.1 5.1	3 1.3 5.0	3 1.2 5.2	3 1.4 5.1	3 1.5 4.9	3 1.5 5.0	3 1.6 5.0	3 1.6 4.8	3 1.5 4.8	3 2.0 4.9	3 1.8 4.9
Dec. 14												
N	3 1.7 5.2	3 1.8 4.9	3 2.0 4.8	3 1.8 5.0	3 2.0 4.7	3 1.6 4.9	3 1.6 5.0	3 1.3 4.6	3 1.5 4.7	3 1.4 4.5	3 1.2 4.7	3 1.0 4.6
E	3 2.3 5.2	3 2.1 5.0	3 2.0 4.9	3 2.2 4.9	3 2.0 4.9	3 2.3 4.8	3 1.8 5.0	3 1.8 4.6	3 2.0 4.8	3 1.5 4.8	3 1.5 4.9	3 1.4 4.6
Z	3 1.8 5.0	3 1.7 4.5	3 1.7 4.6	3 1.6 4.8	3 1.6 5.0	3 1.5 4.8	3 1.5 4.6	3 1.2 4.7	3 1.4 4.5	3 1.2 4.7	3 1.2 4.5	3 0.9 4.5
Dec. 15												
N	3 0.7 3.8	3 0.7 3.9	3 0.7 4.0	3 0.7 3.9	3 0.7 4.2	3 0.9 3.8	3 1.2 4.0	3 1.0 4.0	3 1.2 3.9	3 1.2 4.0	3 1.4 4.0	3 1.4 3.9
E	3 1.0 4.4	3 1.0 4.3	3 1.1 4.5	3 1.2 4.3	3 1.3 4.0	3 1.3 4.1	3 1.4 4.0	3 1.5 4.3	3 1.4 4.2	1 1.4 4.3	1 1.4 4.2	1 1.4 4.3
Z	3 0.8 4.0	3 0.8 3.8	3 0.8 4.1	3 1.0 4.0	3 0.9 3.9	3 0.9 4.0	3 1.0 3.8	3 0.9 4.1	3 1.0 3.8	1 1.0 3.9	1 1.0 3.7	1 1.0 3.8
Dec. 16												
N	3 1.4 3.7	3 1.1 4.0	3 1.1 3.7	3 1.2 3.9	3 1.2 3.8	3 1.2 4.0	3 1.2 4.2	3 1.4 3.9	3 1.1 3.8	3 1.3 4.4	3 1.2 4.5	2 1.0 4.3
E	3 1.6 4.0	3 1.6 4.3	3 1.6 3.9	3 1.5 4.0	3 1.5 4.2	3 1.5 4.3	3 1.3 4.4	3 1.6 4.0	3 1.5 4.5	3 1.3 4.3	3 1.2 4.4	3 1.0 4.3
Z	3 0.9 3.6	3 0.8 4.0	3 0.8 3.9	3 0.8 3.8	3 0.8 4.1	3 0.8 3.9	3 0.8 4.0	3 0.8 4.0	3 1.0 4.2	3 0.9 4.3	3 0.9 4.2	3 0.8 4.4
Dec. 17												
N	3 0.7 4.4	3 0.7 3.9	3 0.7 4.2	3 0.7 3.9	3 0.7 4.0	3 0.7 3.9	3 0.7 4.0	3 0.7 3.8	3 0.7 4.1	3 0.6 4.0	3 0.6 3.8	3 0.7 4.1
E	3 1.0 4.0	3 1.0 3.8	3 1.0 4.0	3 0.8 4.2	3 0.8 4.1	3 0.8 3.9	3 0.8 3.8	3 0.8 4.0	3 0.8 3.9	3 0.7 4.0	3 0.7 4.1	3 0.7 3.8
Z	3 0.5 3.8	3 0.5 3.9	3 0.5 4.0	3 0.5 4.0	3 0.5 3.8	3 0.5 4.1	3 0.5 4.0	3 0.5 4.1	3 0.5 4.0	3 0.5 3.9	3 0.5 4.1	3 0.5 4.0
Dec. 18												
N	3 0.6 4.7	3 0.6 4.6	3 0.6 4.8	3 0.6 4.7	3 0.6 5.0	3 0.6 5.2	3 0.5 5.–	3 0.6 5.5	3 0.6 5.5	3 0.6 5.2	3 0.6 5.5	3 0.6 5.5
E	3 0.7 4.4	3 0.6 4.5	3 0.6 4.6	3 0.6 4.7	3 0.6 4.9	3 0.6 5.1	3 0.6 4.7	3 0.6 4.8	3 0.6 5.2	3 0.6 5.0	3 0.6 5.4	2 0.6 5.6
Z	3 0.5 4.7	3 0.4 4.8	3 0.4 5.1	3 0.4 5.0	3 0.4 5.1	3 0.4 5.4	3 0.4 5.0	3 0.4 5.4	3 0.4 5.6	3 0.4 5.5	3 0.4 5.3	2 0.4 5.3
Dec. 19												
N	1 1.0 6.5	1 1.3 6.3	1 1.3 6.0	1 1.2 6.2	1 1.2 5.9	1 1.2 6.0	1 1.1 6.–	3 1.0 5.9	3 1.2 5.8	3 1.2 5.5	3 1.2 5.5	3 1.4 5.0
E	1 1.2 7.0	1 1.2 6.5	1 1.2 6.5	1 1.2 6.5	1 1.2 6.5	1 1.2 6.0	1 1.2 6.–	3 1.0 5.8	3 1.0 5.5	3 1.2 5.8	3 1.3 5.5	3 1.3 5.2
Z	1 0.9 6.5	1 1.0 6.5	1 1.0 6.5	1 0.8 6.5	1 0.8 6.–	1 0.8 6.–	1 0.8 6.–	1 0.8 5.8	3 0.8 5.5	3 0.9 5.5	3 1.0 5.3	3 1.0 5.1
Dec. 20												
N	3 2.5 4.0	3 3.0 4.0	3 3.0 4.0	3 2.5 4.0	3 2.5 3.8	3 2.5 3.7	3 2.4 3.7	3 2.5 4.0	3 2.5 4.0	3 2.2 4.2	3 2.2 3.9	3 2.2 4.1
E	3 3.0 4.0	3 2.8 4.1	3 2.8 4.0	3 2.6 4.0	3 2.6 4.2	3 2.8 4.1	3 2.4 4.3	3 2.6 3.9	3 2.6 4.0	3 2.6 3.9	3 2.6 4.4	3 2.8 4.5
Z	3 2.0 4.0	3 2.0 4.0	3 2.2 3.8	3 2.3 3.9	3 2.4 3.8	3 2.4 4.0	3 2.3 4.0	3 2.4 3.8	3 2.4 3.9	3 2.5 4.0	3 2.5 4.2	3 2.5 3.9
Dec. 21												
N	3 1.7 4.6	3 2.0 4.4	3 2.0 4.5	3 1.5 4.1	3 1.6 4.3	3 1.2 4.3	3 1.1 4.3	3 1.2 4.1	3 1.2 4.4	3 1.3 4.4	3 1.3 4.6	3 1.1 4.9
E	3 1.7 4.4	3 1.8 4.3	3 2.0 4.4	3 2.0 4.3	3 2.0 4.3	3 1.6 4.4	3 1.6 4.5	.. ..	3 1.6 4.4	3 1.4 4.3	3 1.5 4.8	3 1.2 5.2
Z	3 1.4 4.5	3 1.6 4.4	3 1.5 4.3	3 1.4 4.6	3 1.5 4.4	3 1.4 4.5	3 1.2 4.2	3 1.2 4.4	3 1.2 4.2	3 1.0 4.3	3 0.8 4.5	3 0.8 4.6

12^{h}	13^{h}	14^{h}	15^{h}	16^{h}	17^{h}	18^{h}	19^{h}	20^{h}	21^{h}	22^{h}	23^{h}	1958
												Dec. 10
3 0.7 4.2	3 0.6 4.5	3 0.6 4.3	3 0.6 4.5	3 0.7 4.3	3 0.7 4.4	3 0.8 4.4	3 0.8 4.6	3 0.7 4.7	3 0.7 4.5	3 0.7 4.4	.. ..	*N*
3 1.0 4.8	3 0.8 4.5	3 0.7 4.7	3 0.9 4.6	3 0.8 4.3	3 0.9 4.5	3 1.0 4.4	3 1.0 4.6	3 1.0 4.7	3 1.0 4.6	3 0.8 4.5	.. ..	*E*
3 0.4 5.0	3 0.4 4.7	3 0.5 5.0	3 0.5 4.8	3 0.5 4.8	3 0.4 4.7	3 0.5 5.0	3 0.5 4.3	3 0.4 4.0	3 0.4 4.3	3 0.5 4.3	.. ..	*Z*
												Dec. 11
3 1.0 5.6	3 1.0 5.8	3 1.0 5.5	3 1.0 5.5	3 1.0 5.3	3 1.0 5.5	3 1.0 5.0	3 1.1 5.0	3 1.1 5.2	3 1.0 5.2	3 0.9 5.3	3 0.9 5.4	*N*
3 1.2 5.0	3 1.2 5.0	3 1.0 5.3	3 1.0 5.2	3 1.0 5.3	1 1.0 5.0	3 1.0 5.0	3 1.0 5.0	3 1.0 5.1	3 1.0 5.3	3 1.1 4.7	3 1.2 4.9	*E*
3 0.7 5.4	3 0.7 5.5	3 0.7 5.3	3 0.7 5.4	3 0.6 5.6	3 0.6 5.7	3 0.6 5.–	3 0.6 5.5	3 0.6 5.2	3 0.6 5.2	3 0.5 5.5	3 0.5 5.3	*Z*
												Dec. 12
3 1.3 5.2	3 1.4 5.1	3 1.3 5.2	3 1.4 5.3	3 1.5 5.1	3 1.5 5.3	3 1.7 5.1	3 1.4 5.1	3 1.3 5.0	3 1.8 5.1	3 1.6 5.4	3 1.6 5.3	*N*
3 1.5 5.3	3 1.6 5.4	3 1.6 5.3	3 1.6 5.0	3 1.7 5.2	3 2.0 4.9	3 1.8 5.0	3 1.8 5.0	3 1.9 5.2	3 1.9 4.9	3 1.8 4.7	3 1.8 5.1	*E*
3 1.0 5.2	3 1.1 4.9	3 0.9 5.0	3 1.1 4.9	3 1.0 4.7	3 1.4 5.3	2 1.5 5.0	3 1.4 5.0	3 1.5 5.1	3 1.2 5.3	3 1.1 5.1	3 1.1 5.2	*Z*
												Dec. 13
3 3.0 4.6	3 2.4 4.6	3 2.5 4.8	3 2.4 5.0	3 2.3 4.9	3 2.3 5.1	3 2.3 5.2	3 2.0 4.7	3 2.0 4.7	3 1.8 4.8	3 2.3 4.7	3 2.5 4.8	*N*
3 3.0 5.–	3 3.0 5.0	3 3.3 5.1	3 3.0 5.3	3 2.5 5.0	3 2.5 4.9	3 2.7 5.2	3 2.5 4.7	3 2.2 4.6	3 2.4 4.6	3 2.5 4.5	3 2.5 4.6	*E*
3 2.0 5.0	3 2.0 4.8	3 2.0 5.0	3 2.5 4.7	3 2.0 4.9	3 1.8 4.8	3 1.9 5.0	3 1.8 4.9	3 1.7 4.7	3 1.9 4.6	3 1.8 4.9	3 1.8 4.8	*Z*
												Dec. 14
3 1.2 4.8	3 1.0 4.8	3 1.0 4.7	3 1.0 4.7	3 1.0 4.7	3 0.8 4.5	3 0.9 4.5	3 0.8 4.6	3 0.8 4.4	3 0.7 4.5	3 0.7 4.0	3 0.7 4.3	*N*
3 1.5 4.6	3 1.4 4.7	3 1.3 4.5	3 1.3 4.6	3 1.3 4.6	3 1.3 4.6	3 1.2 4.6	3 1.2 4.4	3 1.2 4.7	3 1.2 4.6	3 1.1 4.5	3 1.1 4.6	*E*
3 0.8 4.7	3 0.7 4.6	3 0.8 4.4	3 0.7 4.5	3 0.9 4.7	3 0.9 4.6	3 0.7 4.5	3 0.7 4.3	3 0.7 4.5	3 0.7 4.0	3 0.7 4.2	3 0.7 3.9	*Z*
												Dec. 15
1 1.4 4.0	1 1.4 4.1	1 1.4 3.9	1 1.4 3.8	1 1.4 4.0	1 1.4 3.7	1 1.4 3.6	3 1.4 4.1	3 1.4 4.0	3 1.5 4.2	3 1.6 4.0	3 1.6 4.1	*N*
1 1.3 3.8	1 1.4 4.0	1 1.4 4.0	1 1.4 4.2	1 1.4 4.5	1 1.4 4.3	1 1.3 3.8	1 1.7 4.4	3 1.6 4.6	3 1.6 4.5	3 1.6 4.7	3 1.6 4.6	*E*
1 1.1 3.6	1 1.0 3.8	1 1.0 3.8	1 1.0 3.7	1 1.0 4.0	1 1.0 3.9	1 1.0 3.6	1 1.1 3.8	3 1.1 4.0	3 1.1 4.3	3 1.1 4.0	3 1.1 4.1	*Z*
												Dec. 16
3 1.2 4.0	3 0.8 4.3	3 0.8 4.2	3 0.8 4.0	3 0.8 4.4	3 0.8 4.2	3 0.7 4.4	3 0.7 4.3	3 0.7 4.2	3 0.7 4.2	3 0.7 4.0	3 0.7 4.1	*N*
3 1.0 4.5	3 1.0 4.6	3 1.0 4.2	3 1.2 4.3	3 1.2 4.3	3 1.1 4.1	3 1.1 4.0	3 1.0 4.0	3 1.0 4.2	3 1.0 4.0	3 1.0 4.0	3 1.0 4.1	*E*
3 0.7 4.2	3 0.6 4.5	3 0.6 4.4	3 0.6 4.6	3 0.6 4.2	3 0.6 4.0	3 0.6 4.2	3 0.6 4.0	3 0.6 3.9	3 0.6 4.2	3 0.6 4.0	3 0.6 3.7	*Z*
												Dec. 17
3 0.7 3.8	3 0.6 3.9	3 0.6 3.8	3 0.6 4.0	3 0.6 3.8	3 0.6 3.9	3 0.7 4.0	3 0.6 4.1	3 0.6 3.8	3 0.6 4.4	3 0.6 4.5	3 0.6 4.5	*N*
3 0.6 4.2	3 0.6 4.0	3 0.6 4.3	3 0.6 4.3	3 0.6 4.0	3 0.6 4.4	3 0.6 4.6	4 0.6 4.4	3 0.7 4.2	3 0.7 4.5	3 0.7 4.7	3 0.7 4.5	*E*
3 0.4 4.0	3 0.4 4.0	3 0.4 3.9	3 0.4 3.8	3 0.4 4.0	3 0.4 4.0	3 0.4 4.0	3 0.4 4.3	3 0.4 4.3	3 0.5 4.5	3 0.5 4.8	3 0.5 4.6	*Z*
												Dec. 18
3 0.5 5.0	3 0.6 5.6	3 0.6 5.3	3 0.7 5.5	3 0.7 6.0	1 0.8 5.8	1 0.9 6.–	1 1.0 6.4	1 1.0 6.3	1 1.0 6.5	1 1.0 6.4	1 1.0 6.5	*N*
2 0.6 5.0	2 0.6 5.5	2 0.6 5.6	2 0.8 5.8	2 0.8 5.6	2 0.8 5.7	1 1.0 6.0	1 1.0 6.2	1 1.0 6.5	1 1.0 6.5	1 1.0 6.5	1 1.0 6.5	*E*
2 0.3 5.2	2 0.4 5.5	2 0.4 5.2	2 0.4 5.6	2 0.6 6.0	2 0.6 6.3	1 0.8 6.5	1 0.8 6.5	1 0.8 6.5	1 0.8 6.5	1 0.8 6.5	1 0.8 6.5	*Z*
												Dec. 19
3 1.4 4.2	3 1.6 4.8	3 1.6 4.5	3 1.6 4.3	3 1.8 4.0	3 2.0 4.0	3 2.1 4.0	3 2.0 4.3	3 2.0 4.0	3 2.6 4.3	3 2.4 3.9	3 2.5 4.2	*N*
3 1.6 5.–	3 1.3 5.2	3 1.5 4.7	3 1.8 4.4	3 1.8 4.3	3 1.8 4.2	3 1.7 4.6	3 2.2 4.1	3 2.5 4.0	3 3.0 4.2	3 3.0 3.9	3 3.0 3.9	*E*
3 1.0 5.0	3 1.0 5.0	3 1.2 4.6	3 1.2 4.5	3 1.2 4.1	3 1.4 4.2	3 1.4 4.0	3 1.4 4.2	3 1.6 4.0	3 1.6 4.0	3 1.8 3.8	3 2.0 3.9	*Z*
												Dec. 20
3 2.4 4.0	3 2.5 4.2	3 2.2 4.0	3 2.2 4.1	3 2.0 4.0	3 2.0 4.2	3 1.8 4.3	3 2.0 4.4	3 1.8 4.3	3 1.8 4.6	3 1.8 4.3	3 1.8 4.5	*N*
3 2.4 4.0	3 2.5 4.2	3 2.6 4.3	3 2.6 4.0	3 2.4 4.2	3 2.2 4.1	3 2.3 4.0	3 2.3 4.3	3 2.0 4.1	3 2.5 4.5	3 2.0 4.6	3 2.0 4.3	*E*
3 2.4 4.0	3 2.0 3.8	3 2.0 4.0	3 2.2 4.3	3 2.0 3.9	3 2.0 4.1	3 1.9 3.8	3 1.8 4.0	3 1.8 4.2	3 2.0 4.4	3 1.8 4.3	3 1.6 4.5	*Z*
												Dec. 21
3 1.5 4.3	3 1.2 4.6	3 1.2 4.6	3 1.3 4.8	3 1.4 4.6	3 1.4 4.2	3 1.6 4.0	3 1.2 4.4	3 1.4 4.4	3 1.3 4.5	3 1.4 4.0	3 1.4 4.2	*N*
3 1.5 5.5	3 1.5 5.3	3 1.4 5.1	3 1.4 5.0	3 1.4 4.8	3 1.4 4.4	3 1.2 4.2	3 1.5 4.0	3 1.7 4.3	3 1.3 4.4	3 1.6 4.3	3 1.4 4.5	*E*
3 0.7 4.4	3 0.8 5.0	3 0.8 4.8	3 0.8 4.9	3 0.8 4.6	3 0.8 4.6	3 0.8 4.5	3 0.8 4.2	3 0.8 4.0	3 0.8 4.2	3 0.8 4.3	3 0.8 4.1	*Z*